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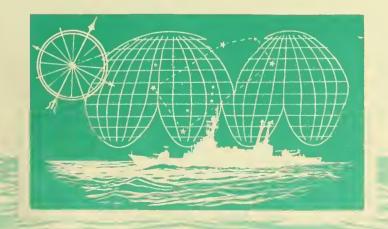
UNITED STATES COAST GUARD

OCEANOGRAPHIC REPORT No. 32

CG 373-32



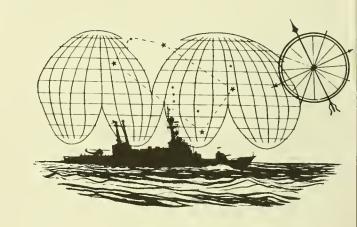
OCEANOGRAPHIC OBSERVATIONS
NORTH ATLANTIC STANDARD MONITORING SECTIONS
1964-1966



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UNITED STATES COAST GUARD OCEANOGRAPHIC



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REPORT No. 32 CG 373-32

OCEANOGRAPHIC OBSERVATIONS NORTH ATLANTIC STANDARD MONITORING SECTI 1964-1966

David M. Husby



WASHINGTON, D.C.



OCTOBER 1969



DEDICATION

This report, the first on the Coast Guard's Standard Section Monitoring Program, is dedicated to James W. McGary, Director of Oceanography of the Coast Guard Oceanographic Unit from 1964 until his death in September 1968. Born in Mercer County, Pa., he received a bachelor's degree in education in 1939 from Pennsylvania State Teachers College in Slippery Rock, Pa.; a bachelor's degree in engineering from the U.S. Coast Guard Academy in 1942, and a master's degree in physical oceanography from Johns Hopkins University in 1952. In World War II, he served with the Coast Guard in the Atlantic and Pacific theaters. He remained in the Coast Guard Reserve, attaining the rank of Commander. After the war, he taught school until becoming an oceanographer at the Honolulu Biological Laboratory of the U.S. Fish and Wildlife Service and then was employed by the Office of Naval Research prior to appointment as the first Director of the Coast Guard Oceanographic Unit.

Jim McGary created the Coast Guard's Standard Section Monitoring Program. This program was initiated and developed under his guidance and must rank as one of his most important contributions in the field of oceanography. In his memory, the Standard Section Monitoring Program will continue to make best use of Coast Guard cutters en route to and from ocean stations by collecting vast amounts of oceanographic data that will immeasurably add to knowledge about our major current systems in the North Atlantic and North

Pacific Oceans.

ABSTRACT

This report contains the observed and interpolated oceanographic data obtained by U.S. Coast Guard vessels on six Standard Monitoring Sections in the North Atlantic during 1964 through 1966. The Standard Section Monitoring Program was initiated by the U.S. Coast Guard in 1964 to provide for the systematic collection, compilation, and presentation of oceanographic data in the major current systems of the North Atlantic. A discussion of the data collection methods, data treatment, and a tabulation of the data along with vertical sections of temperature, salinity, and solenoidal volume flow are presented in this report.

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INTRODUCTION

In November 1964, the USCGC MENDOTA (WHEC 69) occupied a line of oceanographic stations from the eastern Grand Banks to the southeast across the main core of the Labrador Current. This was the beginning of the U.S. Coast Guard's "Standard Section" Monitoring Program in the North Atlantic. It has long been recognized that our knowledge of large-scale variations in oceanic circulation, e.g., eddy processes, is very limited. Large-scale problems such as this need a large volume of long-term observations for their solution. In fulfillment of this objective, the U.S. Coast Guard initiated a program to provide for the systematic collection, compilation, and presentation of oceanographic data in the major current systems of the western North Atlantic. Seven sections in the North Atlantic were selected to be monitored by U.S. Coast Guard ocean station vessels; the two oceanographic vessels, the USCGC EVER-GREEN (WAGO 295) and the USCGC ROCK-AWAY (WAGO 377); and icebreakers on an opportunity basis.

The sections were selected to include the most dynamic areas possible and still be somewhat consistent with the normal tracks of the ocean station vessels (fig. 1). In most cases, the sections are normal to and include the main axis of a major current. Sections 1, 2, and 3 extend across the main core of the Labrador Current and occupation of these sections will result in a valuable input for the long-range forecasting of ice conditions on the Grand Banks. During the months of April, May, and June, the USCGC EVERGREEN occupies these sections in direct support of international Ice Patrol research. In fact, section 1 has been occupied nearly annually since 1928 as part of a larger section extending from near South Wolf Island, Labrador, to Cape Farewell, Greenland (Bush, et al., 1957).

Section 4 extends from the southern Grand Banks southward across the Labrador Current, across the mixed waters of the Labrador Current and into the North Atlantic Current. Data from this section could indicate the boundaries of these currents and their relative strengths in the dynamic area where the Arctic waters of the Labrador meet the subtropical waters of the Gulf Stream.

Sections 5, 6, and 7 encompass the region from Cape Kennedy to the Gulf of Maine and between the continental shelf and the deep offshore waters. Data from these sections will provide information in the study of the Florida Current, Gulf Stream and North Atlantic Current systems.

The utilization of the ocean station vessels which routinely collect oceanographic data at four locations in the North Atlantic, allows a nearly synoptic observational program of the Labrador and North Atlantic Current systems. The ultimate goal is a monthly occupation of sections 2 through 5, seasonal occupation of sections 6 and 7, and occupation of section 1 as ice conditions permit. This sampling program was severely curtailed in 1965 by the shortage of deep-sea reversing thermometers.

DATA COLLECTION

A total of 32 ocean station vessels and the two U.S. Coast Guard Oceanographic vessels, USCGC EVERGREEN and USCGC ROCKAWAY, are equipped to participate in the Standard Section Program. The OSV's occupy a section en route from a particular ocean station, as scheduling permits. Each vessel has at least a minimum of the equipment necessary to conduct Nansen bottle casts, make salinity determinations and collect bathymetric and meteorological data. The vessels are now being equipped with the in situ Salinity/ Temperature/Depth Sensor Systems (STD). Observations are made by trained oceanographic technicians who are graduates of the U.S. Coast Guard Training Center's Oceanography School, formerly at Groton, Connecticut.

The USCGC EVERGREEN was equipped with the STD system in 1966 and made the first successful use of the STD system on the Standard Sections on the Gulf Stream-Labrador Current Survey during October-November 1966, which will be discussed later.

STATION OBSERVATIONS

- 1. At the majority of the stations, the maximum sampling depth is 1,500 meters or as near the bottom as is practicable if the water depth is less than 1,500 meters. In the offshore areas sampling is extended to as close to the bottom as possible at 180 to 200 mile intervals. For the 1,500 meter casts, the sampling depths, in general, are 0, 25, 50, 100, 150, 200, 300, 400, 500, 600, 800, 1000, 1250 and 1,500 meters. Water temperature and salinity are measured at each sampling depth.
- 2. Temperatures are measured by deep-sea reversing thermometers of the Richter and Wiese, Yoshino Keike, and Kessler makes. Two protected

thermometers are used on each Nansen bottle. At least five bottles from 200 to 1,500 meters have an unprotected thermometer in conjunction with the protected thermometers for the thermometric determination of sampling depths. In situ temperatures are determined by the average of the corrected readings of the protected thermometers. The maximum difference tolerated between the two readings is ± 0.040 °C.

3. Samples of water are drawn from each Nansen bottle for the determination of salinity aboard ship. Duplicate samples are drawn from the top and bottom Nansen bottle in each cast and delivered to the U.S. Coast Guard Oceanographic Unit for quality control comparisons. The salinities are determined aboard ship by Model 6220 inductive salinometers manufactured by the Bisset-Berman Corp. These instruments have a probable accuracy, as stated by the manufacturer, of $\pm 0.003\%$.

DATA TREATMENT

The data for each station, including temperature, salinity, and depth, are encoded and transmitted to U.S. Coast Guard Oceanographic Unit. Washington, D.C., via radio teletype for real-time data processing and quality control. The temperature data are transmitted immediately after the observations are made while the salinities are usually transmitted within 3 days of observation. The U.S. Coast Guard Oceanographic Unit processes these data with a Digital Equipment Corp. PDP-5 computer. Nansen cast temperatures are corrected at U.S. Coast Guard Oceanographic Unit and transmitted to the Fleet Numerical Weather Facility, Monterey, California, within 12 hours of observation for use in forecasting oceanographic conditions.

Values of density (σ_{t}) and dynamic heights based on the 1,000 decibar level are determined at each sample depth. The U.S. Coast Guard Oceanographic Unit computes the dynamic heights of the various levels, summing both the observed specific volume anomaly values and the interpolated standard depth values. The determination of dynamic heights in shallow water is performed in the manner described by Helland-Hansen (1934). This method assumes that level isoteric surfaces extend from the water-sediment interface, on the continental slope, into the bottom to a point directly below the next station. This allows the extension of the pressure surfaces,

related to the 1,000 decibar level of no assumed motion, above the shelf as far as the Coast.

Volume flow computations are accomplished at U.S. Coast Guard Oceanographic Unit by a computer program specifically written to provide transport information through vertical property sections (Kollmeyer, et al., 1966). The program computes volume flow information through solenoids which subdivide a property section into small rectangles. The solenoids are bounded by the data obtained from adjacent stations at the various standard depths. The volume flow information is calculated using the following equations:

$$\overline{V} = V_m \times A$$
 (1)

where

$$V_{m} = \frac{10(\overline{D}_{A} - \overline{D}_{B})}{fL}$$
 (2)

$$A = d \times L$$
 (3)

 \overline{V} = volume flow

 V_m =mean water velocity within the solenoid

A=Area of solenoid, bounded by station locations and standard depth intervals

 $(\overline{D}_A - \overline{D}_B) = \text{Difference}$ in mean dynamic height values between adjacent stations, based on the 1,000 decibar level, at a point between the upper and lower standard depth values bounding the solenoid.

f=Coriolis parameter= 2Ω

 $\sin \phi$

where Ω =angular velocity of earth

 $\phi = latitude$

L=Distance between adjacent stations

d=Vertical distance between the standard depth values bounding the solenoid.

Combining equations (1), (2), and (3);

$$\overline{V} = \frac{10(\overline{D}_A - \overline{D}_B)d}{f} \tag{4}$$

The volume flow calculations are now independent of the distance between stations. This allows simplified volume flow computations through solenoids located along the bottom in shallow water. The volume flow computed has the dimensions 10⁶ m³/sec and the direction of flow is indicated by a plus or minus sign. Thus, each vertical property section is divided into solenoids and the entire volume flow, magnitude, and direction, through the section is determined.

Property transport of heat and salt are computed for each solenoid in the section using the following equations:

$$Q_{\dagger} = \overline{V} \times T_m \tag{5}$$

where

 Q_{\uparrow} = heat transport (10⁶°C. m^3/sec) T_m =mean temperature within solenoid (°C) \overline{V} = volume flow (10⁶ m^3 /sec)

and

$$M_s = \overline{V} \times S_m \times \rho_m \tag{6}$$

where

 M_s =salt transport (10°) gms/sec S_m =mean salinity within solenoid ρ_m =mean density of seawater=1.03 gms/cm³

The processed temperature and salinity data were recorded on form NHO-NODC-31/67/1 (9-61), Physical and Chemical Data forms for Oceanographic Stations, and delivered to the National Oceanographic Data Center (NODC). The interpolated temperatures and salinities for standard depths, sigma-t, specific volume anomalies, geopotential anomalies (Δ D), and sound velocities were made by NODC and NODC provided listings for the preparation of tables (I-V).

CRUISE NARRATIVES

During the 1964–66 period, a total of 22 whole or in part occupations were made on six of the Standard Sections. The cruise number, ships, dates, numbers of stations and NODC accession numbers for these cruises are given in table 1. Section 7 was not occupied during this period, but has been included in the program in 1967.

Five of these cruises were made by ocean station vessels returning from Ocean Stations BRAVO and CHARLIE. The data were obtained on these cruises entirely by Nansen bottle casts. The remainder of the cruises were made by the U.S. Coast Guard Oceanographic Vessels, the USCGC EVERGREEN and USCGC ROCKAWAY.

Cruise A1-1 by the USCGC EVERGREEN was part of an oceanographic survey in the western Labrador Sea in the vicinity of Hudson Strait in 1965. The purpose of the survey was to quantitatively determine the contribution to and the effect of the Hudson Strait outflow on the Labrador Current. The data are published in the U.S. Coast Guard Oceanographic Report No. 12, "Oceanography of the Labrador Sea in the Vicinity of Hudson Strait in 1965," Kollmeyer, et al., 1967.

Cruises A3-1 and A3-2 were accomplished by the USCGC MENDOTA and the USCGC ING-HAM en route to and on the return voyage from Ocean Station CHARLIE, respectively. The data from both these cruises are listed by NODC as Ref. No. 31-223 and as table I of this report.

Cruises A1-2, A2-2, A3-5 through A3-9, A4-1, and A4-2 were made by the USCGC EVER-GREEN in support of International Ice Patrol research. They were made during the ice season of 1966 and consisted of a quasi-synoptic occupation of sections 2, 3, and 4 between 2 April and 8 April 1966 and then a time-series study of section 3 between 16 April and 21 April of three nearly complete occupations. During May-June 1966, the USCGC EVERGREEN then reoccupied sections 1, 2, 3, and 4 to investigate the temporal variations in the circulation of the Labrador Current. Cruises A2-1, A3-3, and A3-4 were made by the ocean station vessels USCGC HUMBOLDT (WHEC 372) and USCGC DUANE (WHEC 33) prior to the beginning of the Ice Patrol research, but the data were presented in graphical form with the 1966 Ice Patrol data. Cruise A3-3 by the USCGC DUANE was accomplished en route Ocean Station BRAVO in February 1966. The data are listed by NODC as Ref. No. 31-792 and as table II of this report. The data from cruises A2-1 and A3-4 were collected by the USCGC HUMBOLDT also en route to Ocean Station BRAVO in March 1966. The data are listed by NODC as Ref. No. 31-702 and as table III of this report. All these data are published in the U.S. Coast Guard Oceanographic Report No. 13, "Oceanography of the Grand Banks Region and the Labrador Sea in 1966," Wolford, T. C. (in press).

GULF STREAM-LABRADOR CURRENT SURVEY

During 17 October-17 November 1966, the USCGC EVERGREEN occupied sections A2, A3,

A4, A5, and A6 to provide a synoptic picture of the Gulf Stream and Labrador Current systems. Senior scientist for the cruise was Mr. J. W. McGary, Director of Oceanography, U.S. Coast Guard Oceanographic Unit. The objectives of this survey were: (1) to make a preliminary survey of sections A5 and A6 to check the adequacy of the station spacing and the sampling intervals and (2) to provide data on the Labrador-Gulf Stream system for the first time in the fall season. The trackline for the survey is shown in figure 2. Stations 1–19 in the Gulf of Maine were stations requested by the Bureau of Commercial Fisheries. The remainder of the survey is listed in table 1 as A2–4, A3–10, A4–3, A5–1, and A6–1.

A total of 107 stations were occupied using the Hytech 9006 in situ Salinity/Temperature/Depth Sensor System (STD) to obtain continuous temperature and salinity versus depth profiles from the surface to 1,500 meters. Sections A6 and A5 were occupied first between 25 October and 3 November 1966. Then sections 2, 3, and 4 were occupied, in that order. At three stations on A5 and two on A6, Nansen bottle casts were made in addition to the STD lowering to obtain data below the depth of 1,500 meters. However, these casts were limited to 3,000 meters by the amount of wire available. At all stations, one or two bucket temperatures and salinity samples were taken as quality control checks on the STD performance. Up to station 30, Nansen bottles were placed on the STD cable at the surface and 1,495 meters to collect calibration data. Results showed that temperature and depth corrections were negligible, but the STD salinity values were slightly lower than the control samples.

The analog traces of temperature and salinity which were obtained were read by recording only "standard" depth values and significant inflection point values. The standard depths are in accordance with those recommended by the NODC in publication M-2, "Processing Physical and Chemical Data from Oceanographic Stations," Part 1A, Coding and Keypunching Electronically Obtained Serial Data (Provisional), May 1966 (see table 2).

The processed and corrected data were tabulated on the NODC-EXP-3167/40 (4/66) Form for Reporting Electronically Obtained Serial Data (Provisional) and delivered to the NODC for archiving and the preparation of listings. The data are listed by the NODC as Ref. No. 31-8007 and as table IV of this report.

The USCGC ROCKAWAY occupied section A6 during the period 19 November–22 November 1966. Fifteen oceanographic stations were occupied, each consisting of 15-bottle Nansen casts to a depth of 1,500 meters or to within 50 meters of the bottom when the water depth was less than 1,500 meters. These data are listed by the NODC as Ref. No. 31–1061 and as table V of this report.

DATA PRESENTATION

The oceanographic station data for each cruise are presented in this report as vertical cross-sections of temperature, salinity, and solenoidal volume flow.

For the Gulf Stream-Labrador Survey in November 1966, the dynamic topography of the sea surface relative to the 1,000 decibar surface is presented for each section by contouring the lines of dynamic height between each station with a contour interval of 0.02 dynamic meters (see figs. 3 and 4). The lines of equal dynamic height are not connected between each section, as has been the practice in the past, because it is realized that these data are not synoptic in any sense of the word.

All physical data are tabulated in tables I-V which are preceded by an explanation of the codes used.

Literature Cited

Bush, A. J., J. E. Murray, and F. M. Soule, 1957. International Ice Observation and Ice Patrol Service in the North Atlantic Ocean, Season of 1956, Bulletin No. 42.
Helland-Hansen, B., 1934. The Sognefjord Section. Oceanographic Observations in the Northernmost Part of the North Sea and Southern Part of the Norwegian Sea. J. Johnstone Mem. Vol. p. 257, Liverpool, 1934.

Kollmeyer, R. C. et al., 1966. "Oceanography of the Labrador Sea in the Vicinity of Hudson Strait in 1965," U.S. Coast Guard Oceanographic Report No. 12, CG-373-12.

NODC publication M-2, "Processing Physical and Chemical Data From Oceanographic Stations," Part 1A, Coding and Keypunching Electronically Obtained Serial Data (Provisional), May 1966.

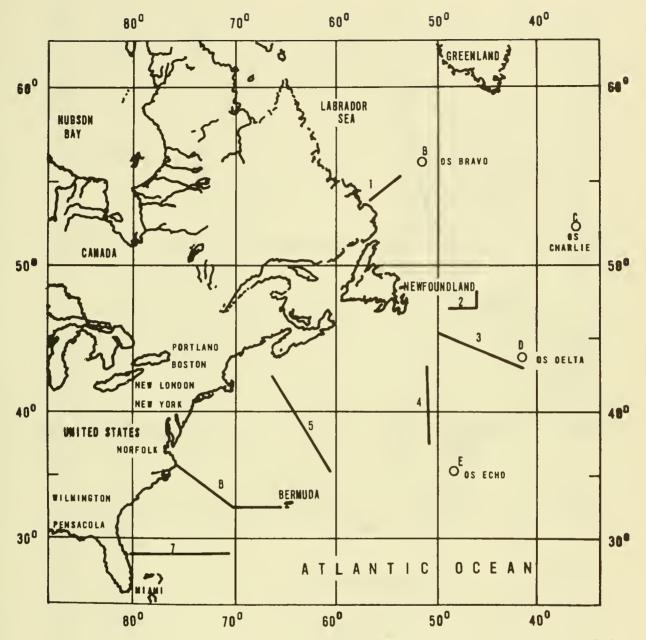
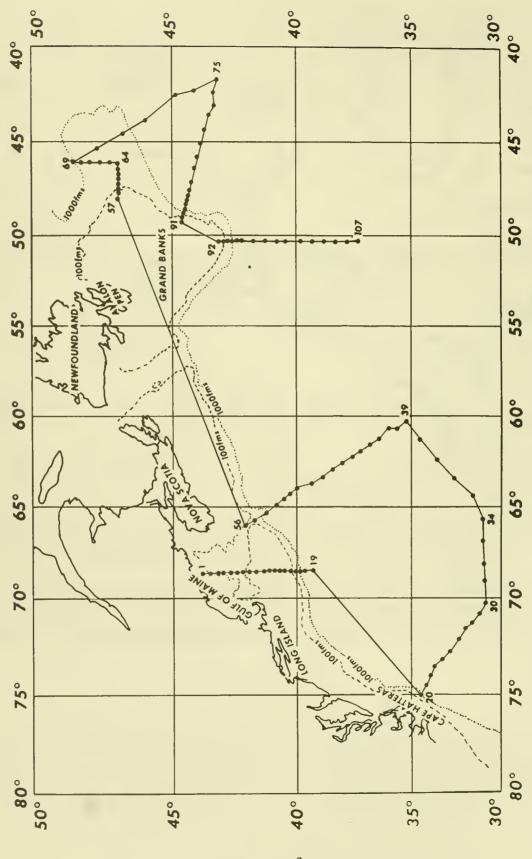


FIGURE 1. Locations of North Atlantic Ocean Stations and Standard Monitoring Sections occupied by the U.S. Coast Guard.



Froure 2. Trackline of Gulf Stream-Labrador Current Survey of the USCGC EVERGREEN, 17 October-17 November 1966. Numbers indicate consecutive station numbers. Stations 1-19 were occupied at the request of the Bureau of Commercial Fisheries Biological Laboratory, Woods Hole, Mass. The data for stations 1-19 are not included in this report.

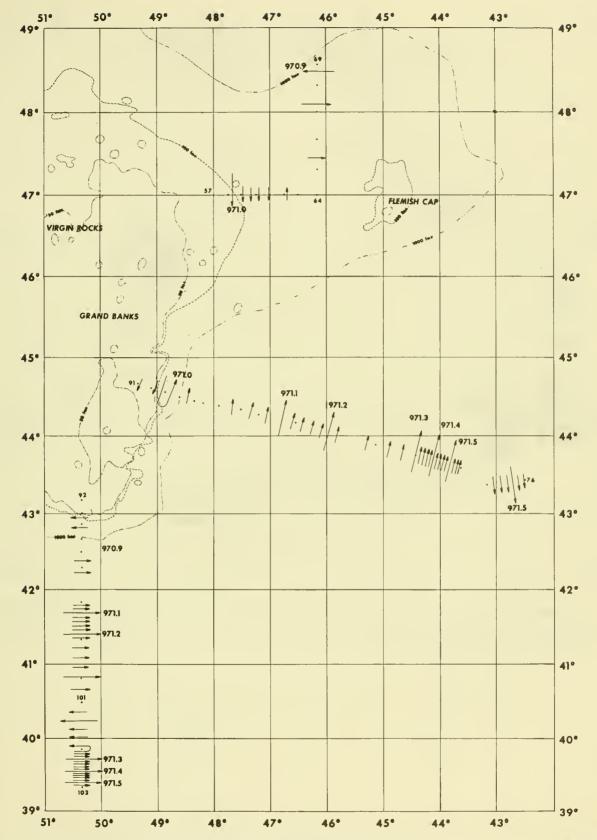


FIGURE 3. Isopleths of surface dynamic height relative to 1,000 decibar surface on North Atlantic Standard Monitoring Sections A2, A3, and A4, 6–13 November 1966, from data of USCGC EVERGREEN. Contour interval is 0.02 dynamic meter. Dots indicate station locations.

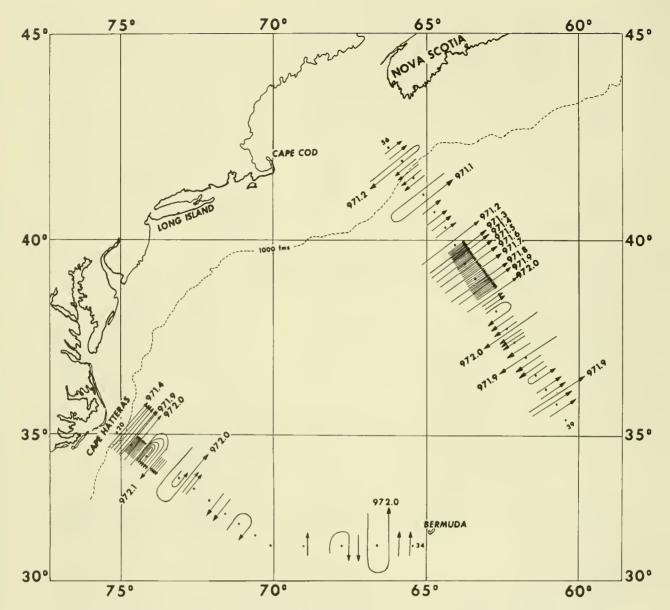


Figure 4. Isopleths of surface dynamic height relative to 1,000 decibar surface on North Atlantic Standard Monitoring Sections A5 and A6, 25 October-3 November 1966, from data of USCGC EVERGREEN. Contour interval is 0.02 dynamic meter. Dots indicate station locations.

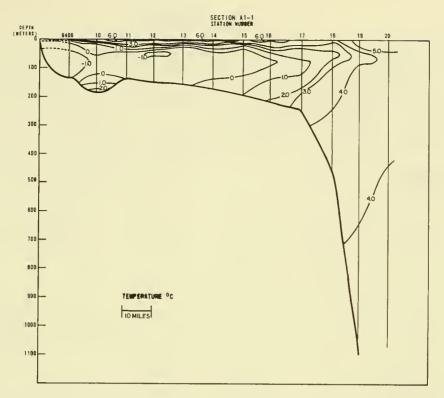


FIGURE 5. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A1 on 25-26 July 1965, prepared from data of USCGC EVERGREEN.

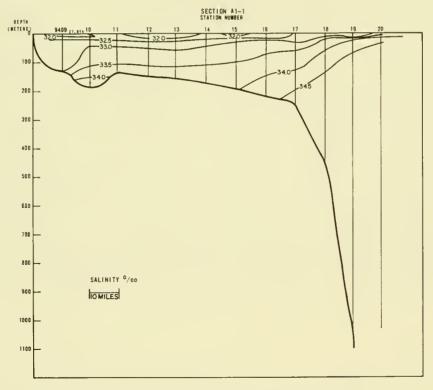


Figure 6. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A1 on 25-26 July 1965, prepared from data of USCGC EVERGREEN.

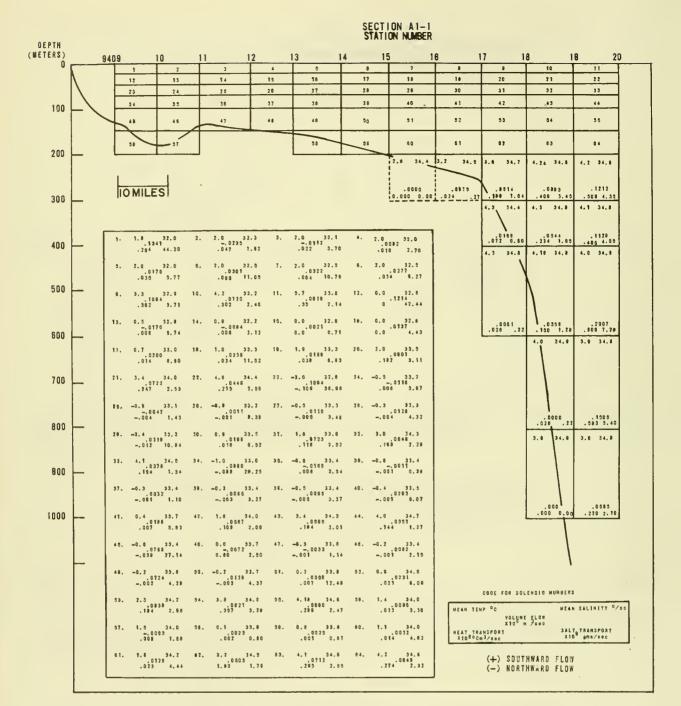


FIGURE 7. Solenoid division of North Atlantic Standard Monitoring Section A1 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 25–26 July 1965.

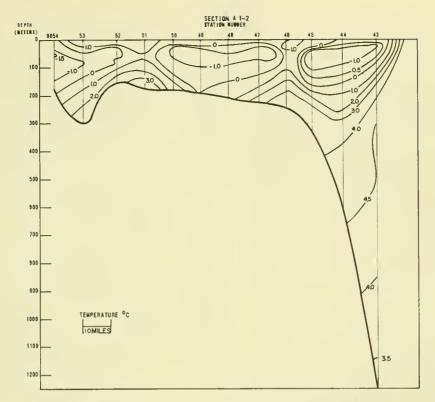


FIGURE 8. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A1 on 6-7 June 1966. Prepared from data of USCGC EVERGREEN.

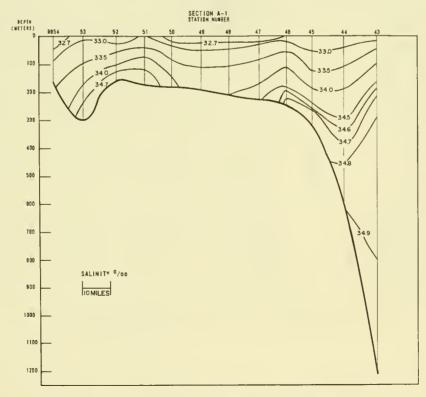


FIGURE 9. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A1 on 6-7 June 1966, prepared from data of USCGC EVERGREEN.

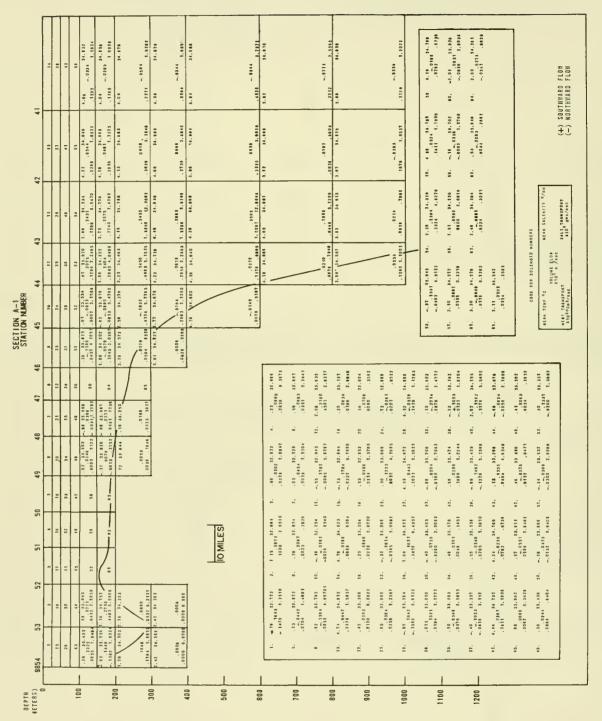


FIGURE 10. Solenoid division of North Atlantic Standard Monitoring Section A1 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 6-7 June 1966.

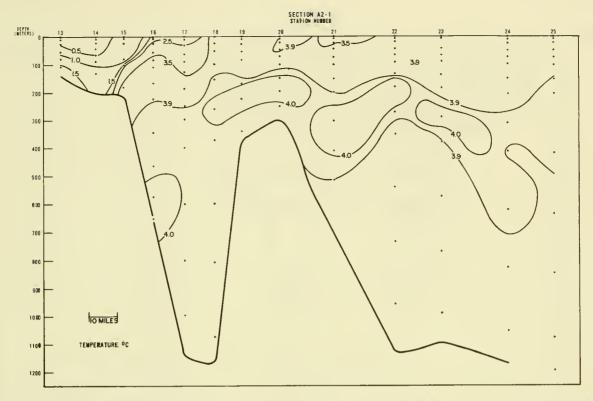


Figure 11. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A2 on 11–12 March 1966, prepared from data of USCGC HUMBOLDT.

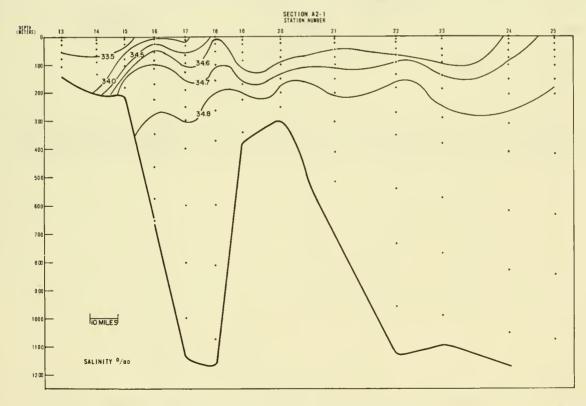


FIGURE 12. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A2 on 11–12 March 1966, prepared from data of USCGC HUMBOLDT.

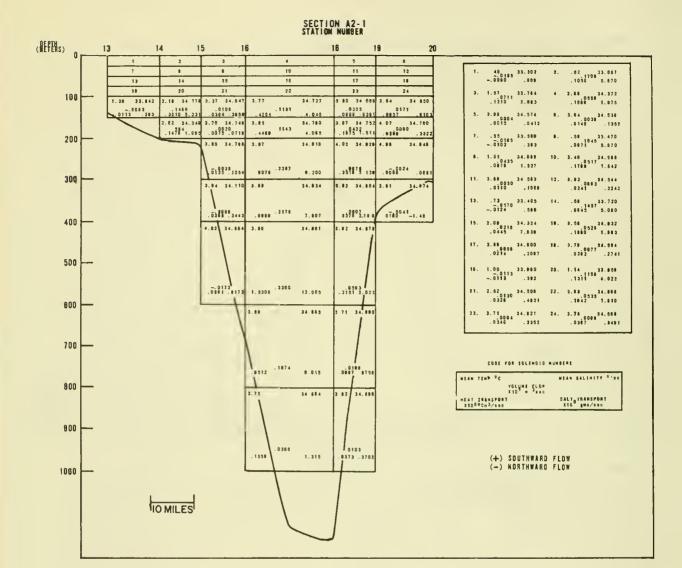


Figure 13. Solenoid division of North Atlantic Standard Monitoring Section A2 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC HUMBOLDT, 11–12 March 1966.

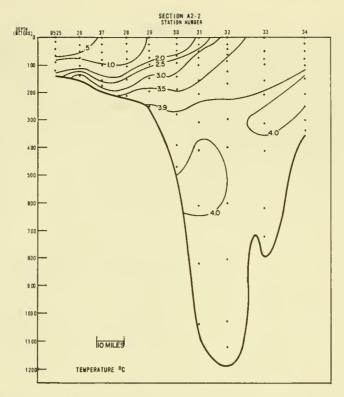


Figure 14. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A2 on 7–8 April 1966, prepared from data of USCGC EVERGREEN.

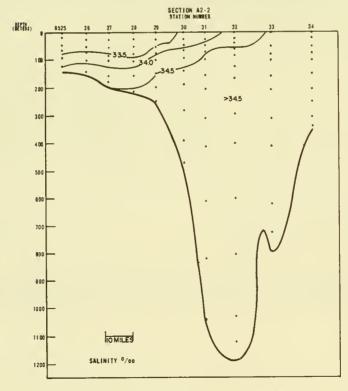


Figure 15. Verticle cross section of salinity (%) on North Atlantic Standard Monitoring Section A2 on 7-8 April 1966, prepared from data of USCGC EVERGREEN.

SECTION A2-2 STATION NUMBER

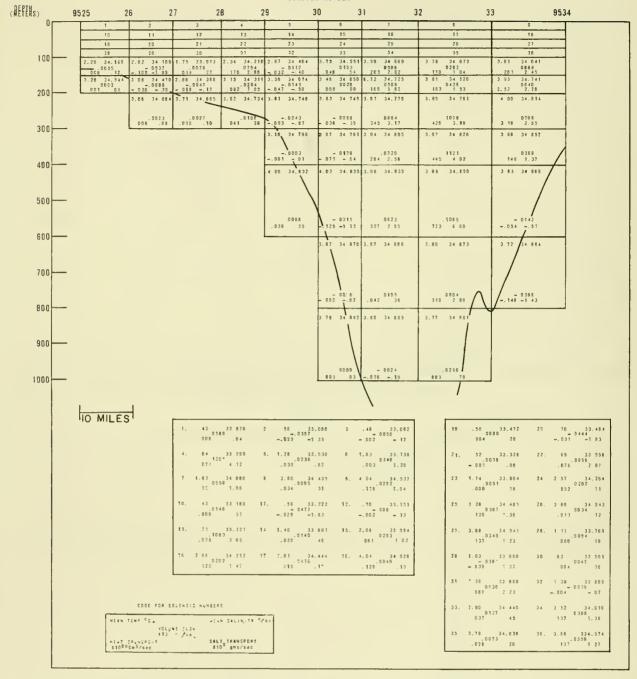
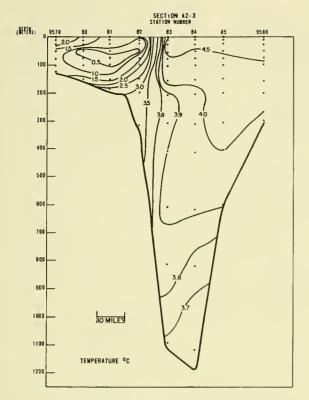
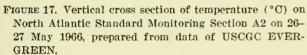


Figure 16. Solenoid division of North Atlantic Standard Monitoring Section A2 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 7–8 April 1966.





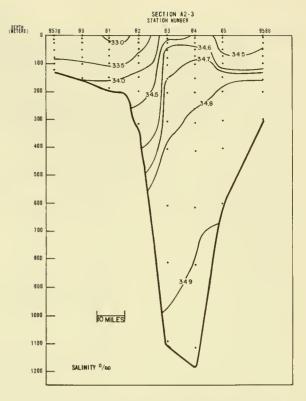


FIGURE 18. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A2 on 26–27 May 1966, prepared from data of USCGC EVERGREEN.

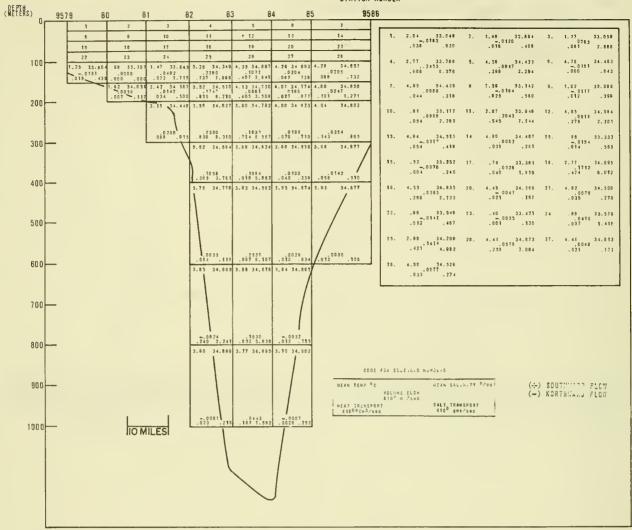


FIGURE 19. Solenoid division of North Atlantic Standard Monitoring Section A2 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 26–27 May 1966.

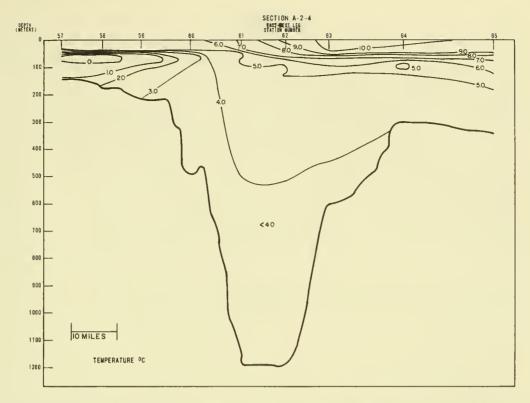


FIGURE 20(a). Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A2 on 6-7 November 1966, prepared from data of USCGC EVERGREEN. This cross section contains only the east to west portion of the section.

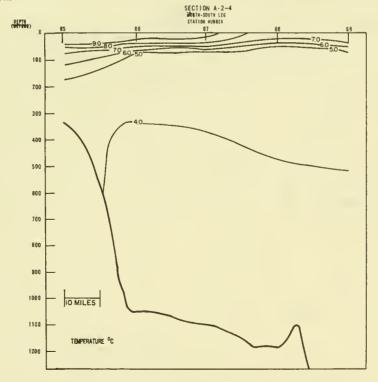


FIGURE 20(b). Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A2 on 6-7 November 1966, prepared from data of USCGC EVERGREEN. This cross section contains only the north to south portion of the section.

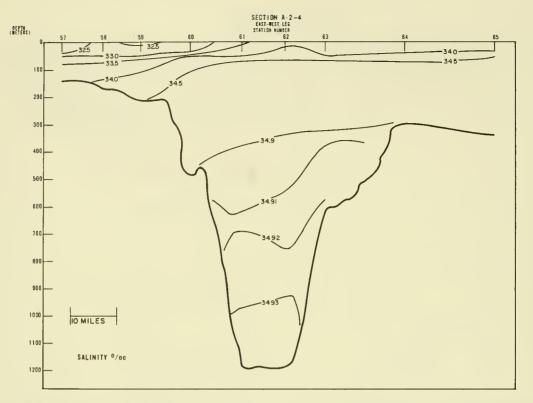


FIGURE 21(a). Vertical cross section salinity (%) on North Atlantic Standard Monitoring Section A2 on 6-7 November 1966, prepared from data of USCGC EVERGREEN. This cross section contains only the east to west portion of the section.

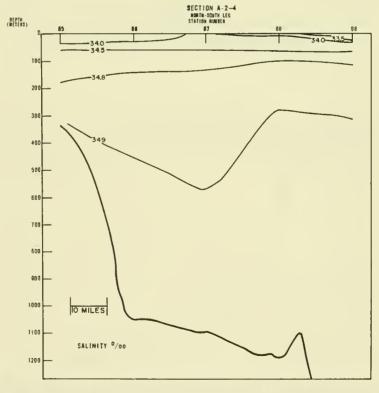


Figure 21(b). Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A2 on 6-7 November 1966, prepared from data of USCGC EVERGREEN. This cross section contains only the north to south portion of the section.

SECTION A-2-4 STATION NUMBER

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		.0351 6 1.23	.0829	.0584 .28 2 44	.05 .19	.0328 .15 1 18	,04 .30	- 0378 .21 1.35	.0932	- 0454 .20 1.82	.15 1 24	0287 .13 _1.03	
	2.4 34 3 2.8 0 0 0 .0	34 4 1 0047 1 .17	3.5 34 8	4.3 34.5 .0588	4.5 34.8	4.5 34 8 .0330 15 1 19	4,7 34.0	5.0 34 ft ~ 0164	4 B 34 B	4.2 34 8 , 0442 18 1.59	4 4 34 5	4.5 34.8 0278 12 89	
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			0 0	.0425 .10 1.53	0 0	.0708	.0283	.0025	0 434 , 16 1.58	07 44	29 2.45	.23 f.88	
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Figure 22. Solenoid division of North Atlantic Standard Monitoring Section A2 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 6-7 November 1966.

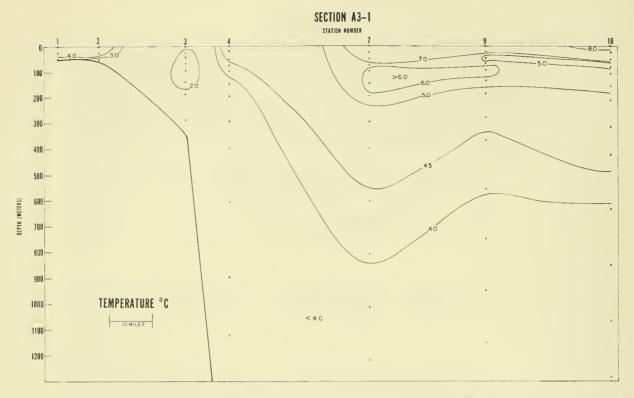


FIGURE 23. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A3 on 23-24 November 1964, prepared from data of USCGC MENDOTA.

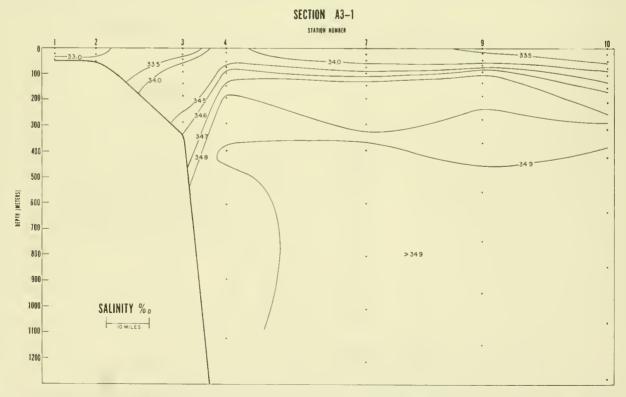


Figure 24. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A3 on 23–24 November 1964, prepared from data of USCGC MENDOTA.

SECTION A3-1

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			4. 5.87 -2.282,37	33.785 8, 7.30 55.488 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	7.94 88.387 16. 2.88 -1.123 -8.88 .473	8.84 -1,468 -9.40
				12 A10 1 2 A1 12 145 1		
	1		7. 3.81	32.888 8. 2.93 33273 1077 3.70	3.81 5835 33 887 17, 9.85 1 .489 5.79 .725 1	33.882 18. 8.70 .883
			10. 0.05 -1.037.31	33.808 11. 8.84 33.018 12. 11.14 882 ¹⁵¹⁸ 5.23	8.84 2330 -4.28 18. 1.91 .382.0	38.838 20 2.87 34.388 3.50408 5.83
			-1.114***	-11.14 982 5.23	.101	3.30 ,408 5.83
			-		21. 0.24	34.804 22. 8.32. 84.816
					21. 8.24 -1.238	2385 -8.37 .808 3.78
			0000	FOR SOLENOID NUMBERS		
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			HEAN TENP "C	VOLUME ELOS	112	-0.41
		/1) CAUTUWIDA FIAM		ADTHRE GEOR MENN ZETIMILA NOO		
		(+) SOUTHWARD FLOW	MEAT INSHSPOR	* SALT TRANSPORT - XTO gms/ceo		
		(-) NORTHWARD FLOW	X4Da.cu3/444	Nin Betiten		

FIGURE 25. Solenoid division of North Atlantic Standard Monitoring Section A3 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC MENDOTA, 23-24 November 1966.

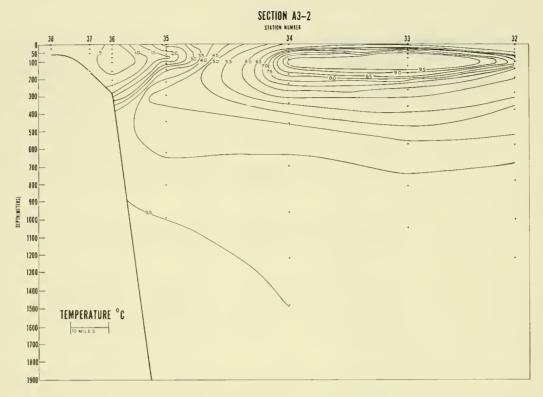


Figure 26. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A3 on 28–29 January 1965, prepared from data of USCGC INGHAM.

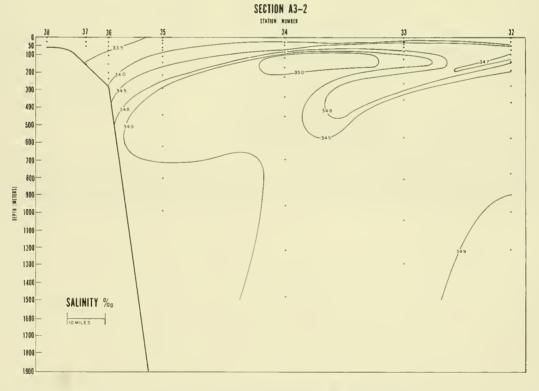


Figure 27. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A3 on 28-29 January 1965, prepared from data of USCGC INGHAM.

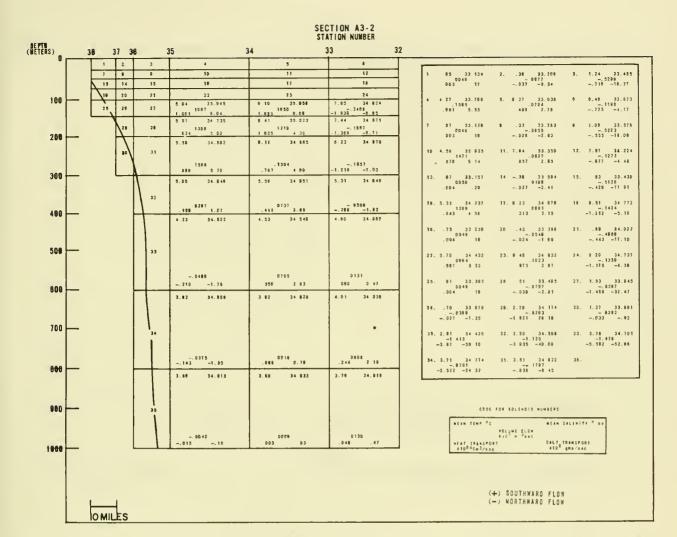


Figure 28. Solenoid division of North Atlantic Standard Monitoring Section A3 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC INGHAM, 28–29 January 1965.

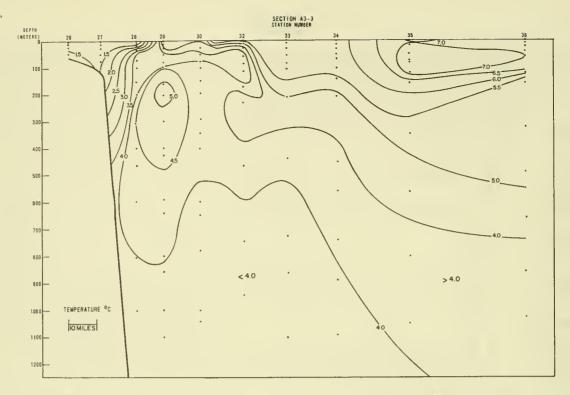


Figure 29. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A3 on 14-15 February 1966, prepared from data of USCGC DUANE.

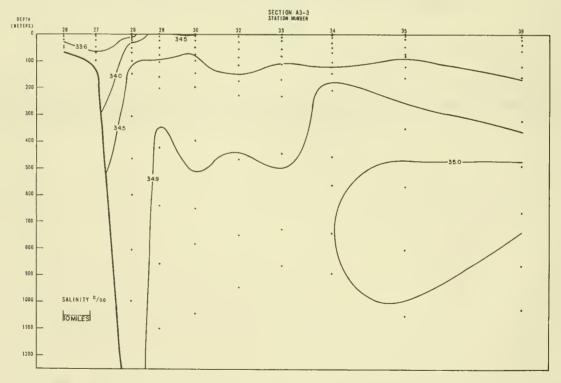


FIGURE 30. Vertical cross section of salinity (‰) on North Atlantic Standard Monitoring Section A3 on 14-15 February 1966, prepared from data of USCGC DUANE.

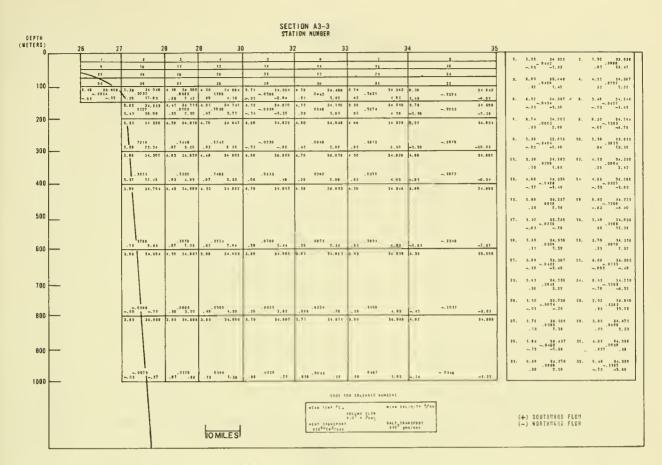


FIGURE 31. Solenoid division of North Atlantic Standard Monitoring Section A3 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC DUANE, 14-15 February 1966.

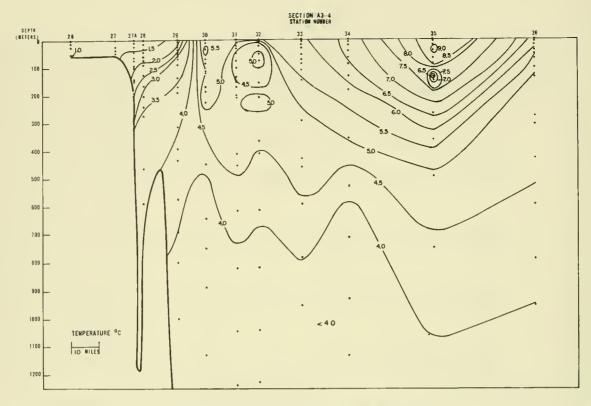


FIGURE 32. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A3 on 9-10 March 1966, prepared from data of USCGC HUMBOLDT.

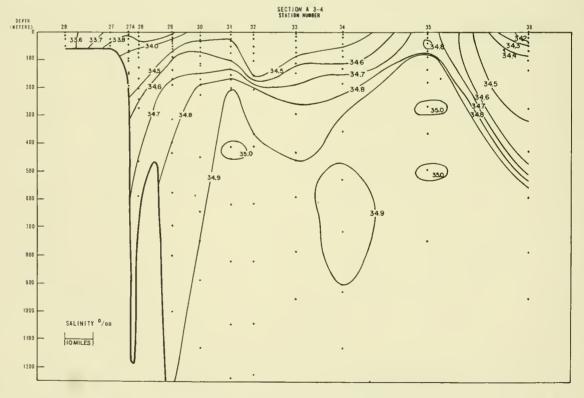


Figure 33. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A3 on 9-10 March 1966, prepared from data of USCGC HUMBOLDT.

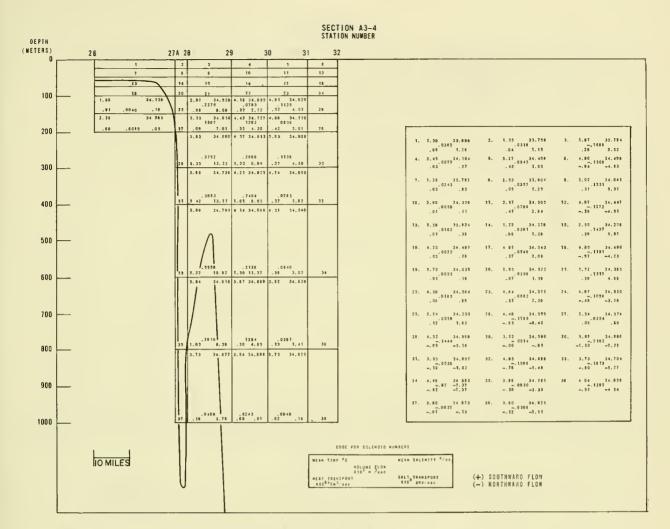


FIGURE 34. Solenoid division of North Atlantic Standard Monitoring Section A3 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC HUMBOLDT, 9–10 March 1966.

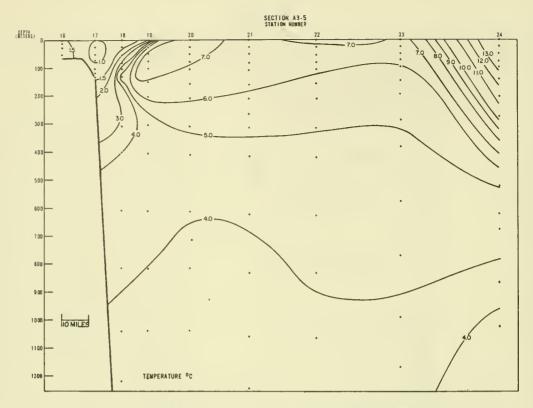


Figure 35. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A3 on 4–5 April 1966, prepared from data of USCGC EVERGREEN.

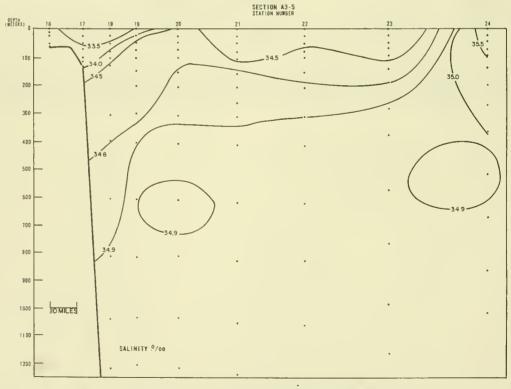


Figure 36. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A3 on 4-5 April 1966, prepared from data of USCGC EVERGREEN.

SECTION A3-5 STATION NUMBER DEPTH (METERS) 23 22 21 28 25 14 045 100 34 909 -.03[1₁₁ 5.34 6 25 24.710 34.575 0324 1,15 33 34 3.5 -. 7024 12776 21 8.19 6 56 -. 0281 -1.04 .0453 1.27 -0 93 -24 65 9.5 ~. 19 9.5 200 5.25 99.037 9 30 24 145 3.05 34.518 4.09 34.00 5.76 44.911 24,548 0.33 .30894 3.31 12251 0488 -80.73 300 34.905 24.144 3 01 2.83 34,708 4.09 34,375 4.71 5.03 24 115 .12 1,22 30131 - 29 . 33 2.18 -3.55 400 4 85 34 940 6.00 38 864 34.845 4.52 54 605 4 82 4.00 34.755 4.22 34.839 500 .08183 . 80 4.25 5.84 - 11 800 4.15 24 544 4 28 24 883 4 33 26.847 4, 87 34, 875 700 .. 1431 3475 -. 6673 -. 03 . 5295 12 -5.87 1.42 12.31 800 34 593 24 851 4 10 5 93 34, 19 34.523 4 04 900 -. 0927 -. 01 ~. 0989 ~. 86 -1.92 1000 5.29 H -.0455 2. 1.25 (018 33.359 .12 (018 3.48 -. 0233 . 8823 2.23 -. 17 34.443 34.032 7 14 24.455 7 57 0222 9292 . 0 1 0 7 w. 81 7.08 5.36 -, 0446 34 458 -1, 38 - 9848 23,410 . 25 6 65 15 9228 34 477 78 3,78 n, 6435 34.454 -1.35 0555 24, 198 2, 12 7.22 6 50 34 475 -. 87 0 05 8292 . 0 7 48 9737 34 393 2 88 2.03 5.54 - 0110 -2 53 8825 33 832 -2 84 10. 10.02 -6.51 -10.08 -10.22 35.067 17 1.21 6002 32 459 1014 5.76 -.0286 34 706 - 19 -.0286 1.92 CDSE FOR 10419010 NUMBERS SEER SELECTE TOO (+) SOUTHWARD FLOW (-) NORTHWARD FLOW utan teur oc MILES

FIGURE 37. Solenoid division of North Atlantic Standard Monitoring Section A3 including mean temperature, mean salimity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 4-5 April 1966.

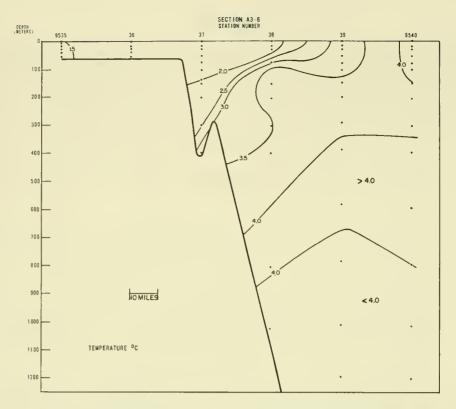


Figure 38. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A3 on 16-17 April, 1966, prepared from data of USCGC EVERGREEN.

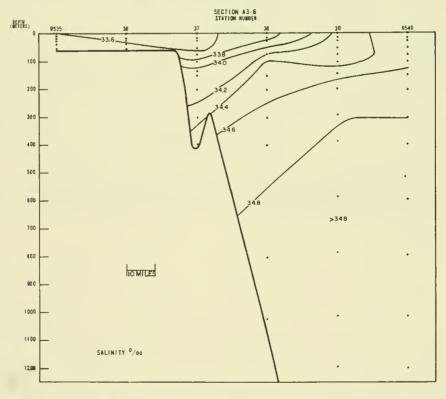


Figure 39. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A3 on 16-17 April 1966, prepared from data of USCGC EVERGREEN.

SECTION A3-6 STATION NUMBER

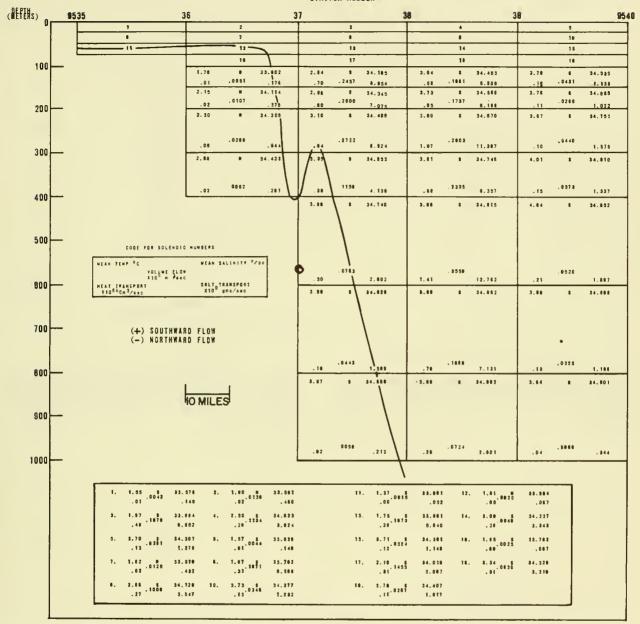


Figure 40. Solenoid division of North Atlantic Standard Monitoring Section A3 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 16–17 April 1966.

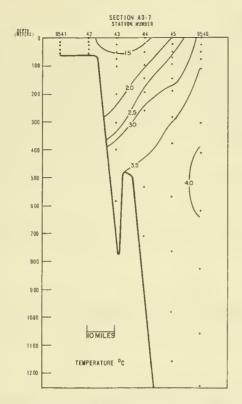


FIGURE 41. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A3 on 18-19 April 1966, prepared from data of USCGC EVER-GREEN.

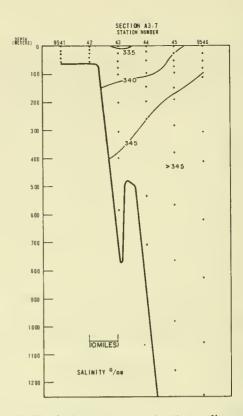


FIGURE 42. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A3 on 18-19 April 1966, prepared from data of USCGC EVERGREEN.

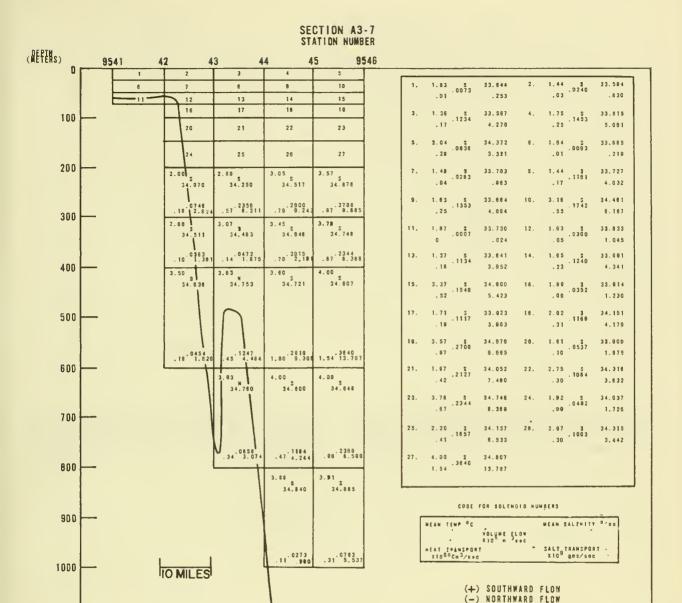


FIGURE 43. Solenoid division of North Atlantic Standard Monitoring Section A3 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 18–19 April 1966.

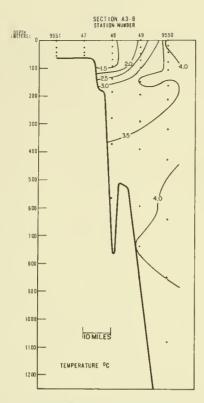


FIGURE 45. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A3 on 21 April 1966, prepared from data of USCGC EVERGREEN.

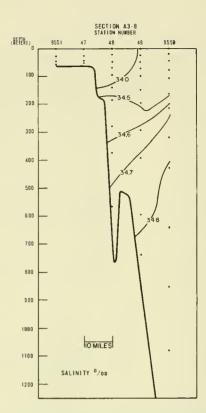


FIGURE 44. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A3 on 21 April 1966, prepared from data of USCGC EVER-GREEN.

SECTION A3-8 STATION NUMBER

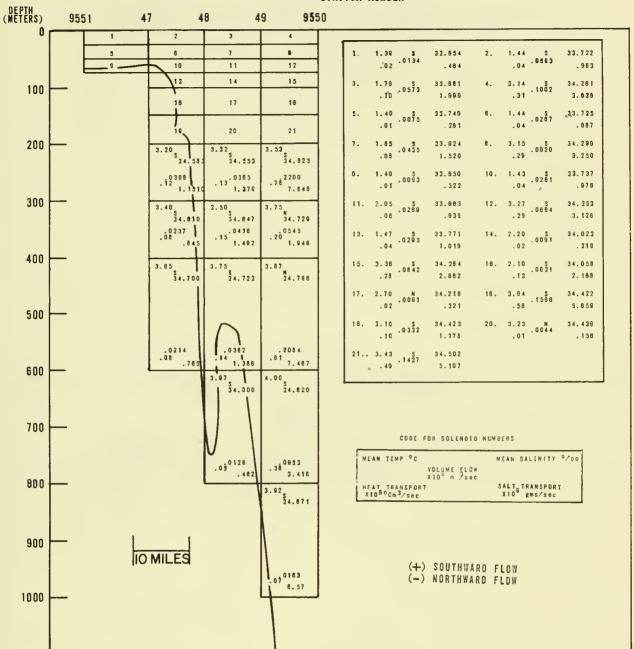


FIGURE 46. Solenoid division of North Atlantic Standard Monitoring Section A3 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 21 April 1966.

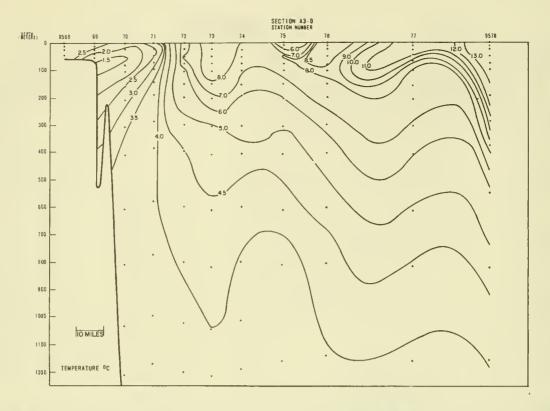


FIGURE 47. Vertical cross section of temperature (°) on North Atlantic Standard Monitoring Section A3 on 25-26 May 1966, prepared from data of USCGC EVERGREEN.

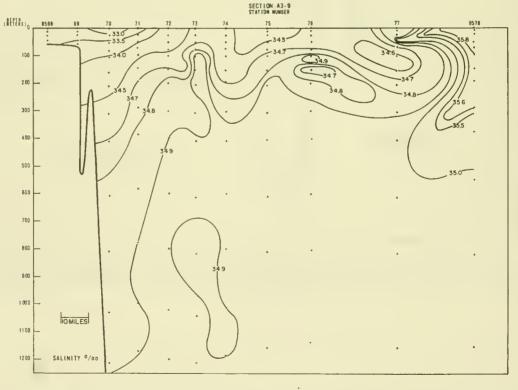


Figure 48. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A3 on 25-26 May 1966. prepared from data of USCGC EVERGREEN.

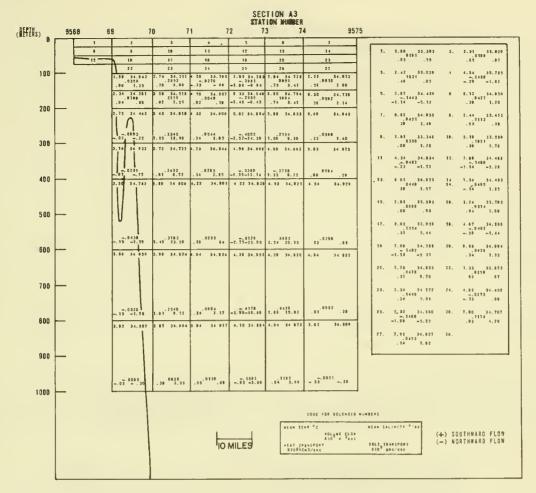


FIGURE 49. Solenoid division of North Atlantic Standard Monitoring Section A3 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 25–26 May 1966.

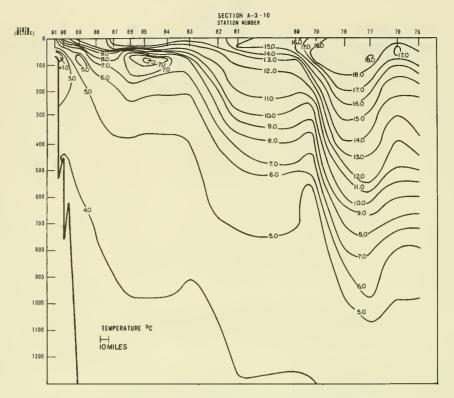


Figure 50. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A3 on 9-11 November 1966, prepared from data of USCGC EVERGREEN.

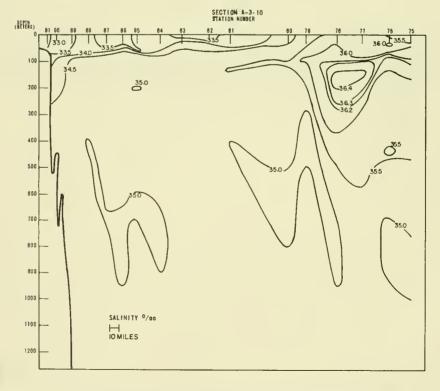


Figure 51. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A3 on 9-11 November 1966, prepared from data of USCGC EVERGREEN.

SECTION A-3-10

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				8.8 .78 1188 33.		0.3 33.3 .30 1.30		.8 35, 8 ,0288 ,83			.00 1.00		34.1 1283 4.51	11, 0.2			
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	21	1, 12.3	2 4.01	14.2 3.27 3.27	0 27. 1	3.2 .0984 1.07 2,41	28. 1	2,4 34,8 ,1099 2,72 5,88			9.2 1.89 1738 4.08	98. 11.3 T.7:		18. 12.1 .210	35. I 6	8. 18.3 5.88	4,51
								7.0 35.8 .0811 1.07 3.24		11, 11	8.1 38.1 .2078 7.84 29.78	89, 18.3 .30	38.1 .8712 .78	82, 57,3 6,41	39.1 6 123 5.36	4. 17.8 .0501 .83	38.1 1.88
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Figure 52. Solenoid division of North Atlantic Standard Monitoring Section A3 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 9–11 November 1966.

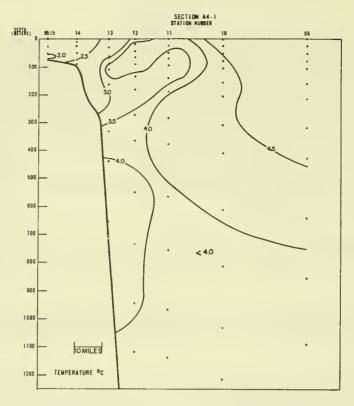


Figure 53. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A4 on 2-3 April 1966, prepared from data of USCGC EVERGREEN.

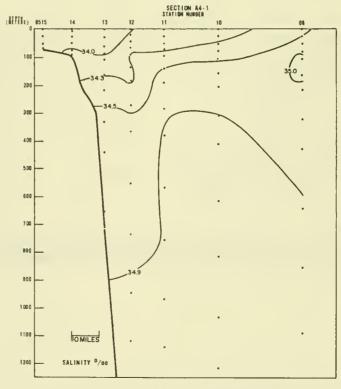


FIGURE 54. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A4 on 2-3 April 1966, prepared from data of USCGC EVERGREEN.

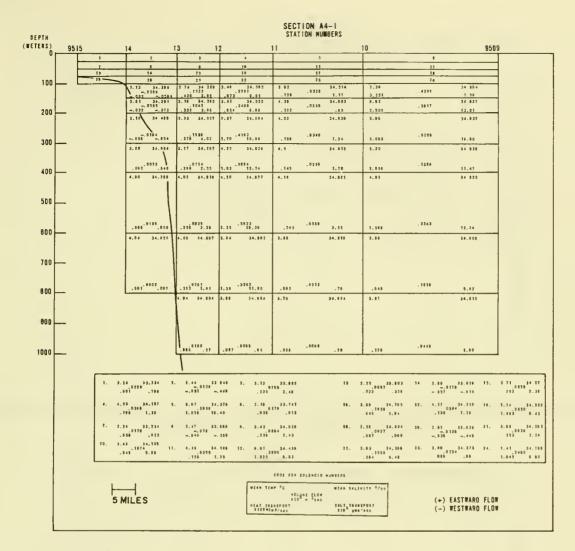


FIGURE 55. Solenoid division of North Atlantic Standard Monitoring Section A4 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 2–3 April 1966.

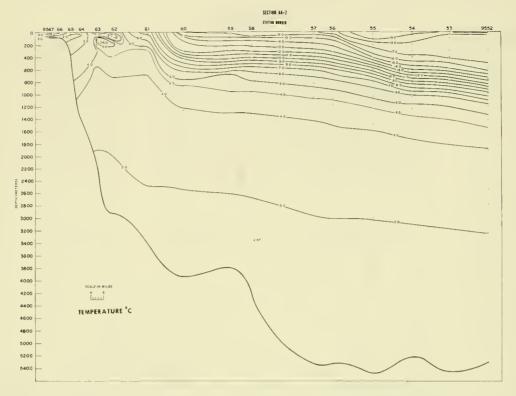


FIGURE 56. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A4 on 22–24 May 1966, prepared from data of USCGC EVERGREEN.

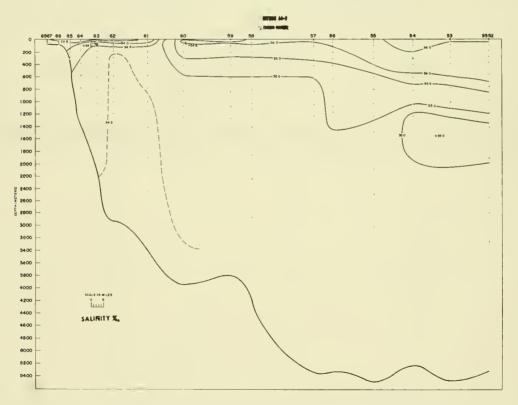


FIGURE 57. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A4 on 22-24 May 1966, prepared from data of USCGC EVERGREEN.

SECTION A4-2 STATION NUMBER

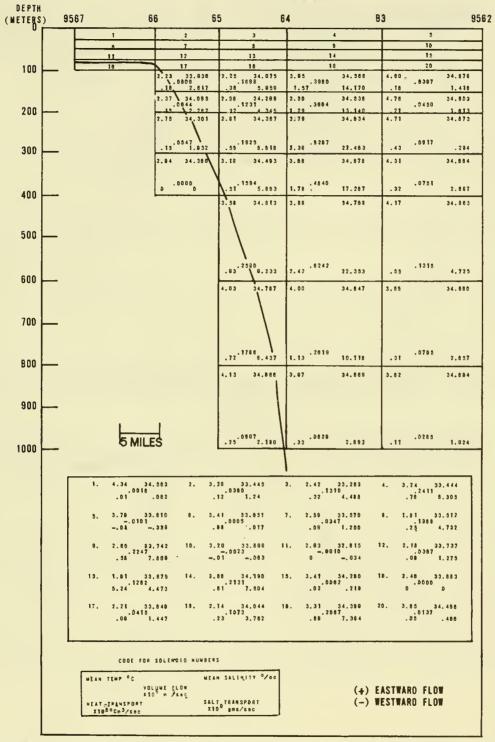


FIGURE 58. Solenoid division of North Atlantic Standard Monitoring Section A4 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 22–24 May 1966.

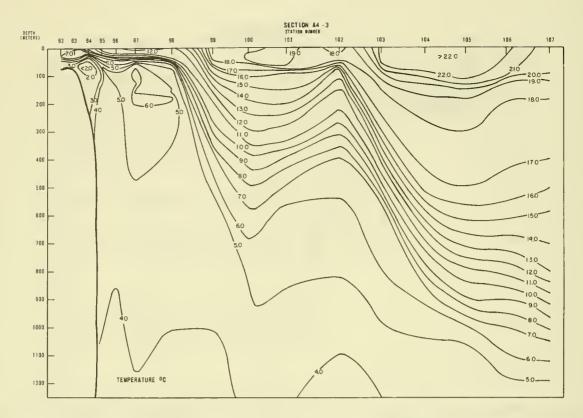


Figure 59. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A4 on 11-13 November 1966, prepared from data of USCGC EVERGREEN.

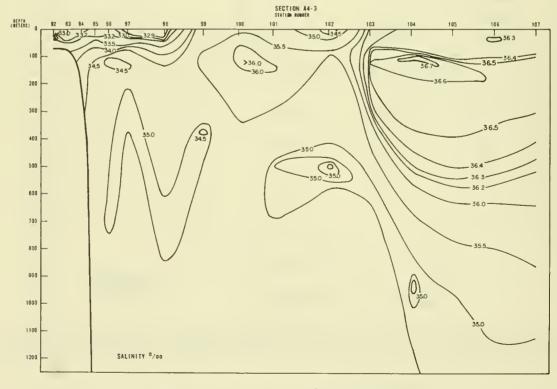


FIGURE 60. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A4 on 11-13 November 1966, prepared from data of USCGC EVERGREEN.

SECTION A-4 -3 STATION NUMBER DEPTH (WETERS) 14 23 29 28 28 30 14 39 100 30,0 14,8 35,7 15,9 38,0 .5085 -,1438 .23 7,15 79,71 22,38 53,28 3,2 34,4 4.7 34.8 .1441 .88 0.13 5.8 34.8 -.1788 1.03 0.30 8.3 34.5 .0820 .43 2.81 8.0 35.0 24.5 55.8 -.7441 -.0212 8.00 28.03 7.56 10.24 17.8 38.0 18.8 38 8 20.6 30.8 -1.7918 -.8825 34.80 88.0013.84 74.87 .08 3.8 34.8 4.0 34.0 5.3 84.7 5.8 34.8 8.7 20.1 73.0 35.0 (1938 ... 1718 ... 1738 ... 1 2.8 34.3 -.0074 .01 .89 200 0.4 34.8 5.7 34.6 7.8 35.1 11.6 32.5 12.8 35.7 11.7 35.5 13.8 33.8 -,8810 .2487 .3854 -.1204 .0353 -.8842 -.8052 .65 0.00 1.89 13.80 .81 0.12 .20 1.27 0.73 31.24 10.00 31.74 .0000 .0000 +2,2757 -9,2220 -1,1704 .1007 -.7033 .80 2,63 0.53 29.61 30.00 01.00 00.00 121.1071 33 44.00 2,72 5.00 5.01 7.00 300 0.1 38.0 5.2 34.8 8.4 38.0 9.4 38.3 10.7 35.4 6.3 36.2 78.4 30.6 18.1 39.3 17.7 36.0 17.8 38.9 17.3 38.6 .5898 .1389 -.0870 .0208 -.0058 -.8052 .38 3.00 1.00 13.03 .49 3.49 .11 .74 2.23 10.00 0.20 24.17 400 4.8 35.0 4.8 35.0 5.8 33.0 7.0 430.1 SDO -.0521 .0010 -.4424 -..0807 .1410 -9104 -2,7850 -4,0017 -2,1800 1.02 8.13 3.03 27.02 13.62 03.00 57.08 105.7135.72 81.53 800 9.8 25.7 5.4 25.1 4.3 33.0 4.4 31.0 3.1 31.0 700 . 1910 1 . 1 AUU 4.1 35.8 4.2 39.0 4,1 19.0 4.8 35.0 4.8 39.1 4.7 39.7 9.8 35.3 0.8 38.7 7.5 28.1 8.7 28.2 8.6 39.3 900 -. 0310 -. 10 7, 13 0 . 55 1327 4.70 -. 8370 24 2.08 27 2.11 .08 .09 .07 .09 .0054 -.0914 -.2778 .54 2.23 2.88 9.89 1000 7, 7,0 23,3 ,0120 2, 7.1 33,3 .8780 7,87 3. 9.1 22.7 .9942 4. 11.2 31.1 .18 .58 33. 2.1 .1843 3.81 34. 5.2 38.7 .0588 3.04 38. 5.6 33.8 -,8844 .40 2,93 38, 9,2 33,7 .0118 40. 17.4 39.3 .30%5 8.3% 11.29 37. 31.3 -.4471 3 10 15.85 38. 17.1 35.7 -,2383 4.72 8.27 19. 10.4 25.8 -.8537 .80 1.00 9, 16.8 33.8 -,0883 1,03 3,03 9. \$1.8 32.8 -.0378 .42 1,75 7, 24,8 33,8 -,4458 8,85 23,92 41, 18.8 35,7 -,8283 15.37 30.38 42, 22.1 28.3 -,0221 28.42 24.55 44. 21.8 39.3 3.18 8.78 F. 18.2 35.8 --,8882 1.88 3.88 22,1 -,6186 28,44 34,84 73. 72.4 38.3 -.3787 8.47 14.18 14. 27,3 88.8 15. 21,3 18.3 18.4 18. (2016) 4.87 7.86 15. (2016) 5.2 .0100 33.2 .03 .34 28.8 .0014 .03 .05 48 2.0 35.0 47. 1.8 38.8 .08 t.22 48- 2,7 .31⁸²³⁸ 4.08 51. 8.0 34.1 .0380 .21 1.27 12, 4,1 23.3 1F. 4.3 34.2 .0583 .28 2.08 80. 8.2 34.4 -,0893 .80 3.42 92. 9.8 34.2 -.4188 4.88 14.80 4,8 33,2 16, 7,8 23,3 20, .8987 .8318 .11 1,4 -,1142 2,11 19.3 -.0840 1.04 3.10 99: 15.8 35.8 -,2593 -,4.13 8.80 84. 18.7 38.0 -.0718 16. 15.4 35.8 .2828 4.38 10.38 59. 17.4 39.1 -. 7818 23.62 28.03 28, 20,3 39,5 -,8502 17,37 13,32 25, 19.8 35,1 3335 8,89 11,71 27, 22.2 38.3 28. 70.00 34.48 22.4 -, 3788 8.43 74.10 27. 21.4 38.8 -,8028 18.47 34.18 88. 22.2 33.8 --.8819 4:03 17.84 38. 23.8 38.4 -.1988 3.40 5.85 80, 20,7 38,4 -,0086 39, 22,8 38,3 30, 21,0 38,2 31, 2,8 33,4 32, .0183 .0183 .018 .017 .19 1.8 33.8 .8508 1.75 MEAN SECENITY OF 00 (+) EASTWARD FLOW VOLUME ELO*

FIGURE 61. Solenoid division of North Atlantic Standard Monitoring Section A4 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 11-13 November 1966.

(-) WESTWARD FLOW

SALT TRARSPORT

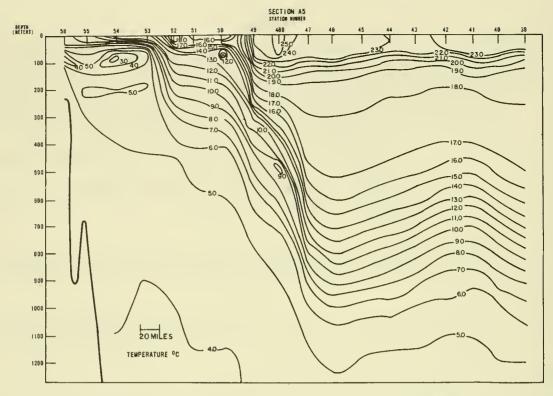


FIGURE 62. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A5 on 1-3 November 1966, prepared from data of USCGC EVERGREEN.

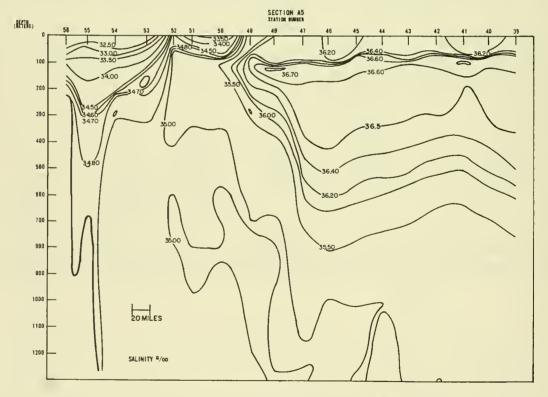


Figure 63. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A5 on 1-3 November 1966, prepared from data of USCGC EVERGREEN.

								172	ECTION AS	ER							
S) 0[56 5	5 5	4 5	3 3	2 5	1 5	0 4		48 4	1 4	8 6	5 4	1 12 4	3 4	2 4	1	40 3
	10	1.6	2 6	21	7.2	2,3	7 7 4	22	28	31	2.0	18	3.6	31	12	110	24
	15	11	37	5.5	3.0	+1	21	4.2	43	11	15	11	11	* 8	11	3.0	31
100	5.8 34 0	6.7 33 6	3.2 34.2	6 7 36 6	11 0 35.3	12 1 35 4	18.4 36 0	28.1 38.8	21.1 10 0	26 8 38.8	20.3 38.8	18.5 30 0	18 (36.8	18 0 26 6	18.4 39 8	10 0 30 0	18 3 38 8
	1 07 11.72	2.31 17.48	f) 3.40	1.33 0.51	2 49 7.04		15 21 21786				3 42 0.37	5 93 18 73	4 85 9 10			0 50 10 3	
	1. 20 . 25 27 25 27	0 0 34 2 2.03 4021 2.03 14 10	5.1 34 5 .32 3.54	7.7 34 6 1086 63 3.61			14.7 35 9	18.7 38.5 -,2381 (3.84.28.04	12.61-1111	3.4.117	2 73 8.07	10 0 20 0	1 1325315.5	2 10 12 51	18.8 36.6 0485 75 1.53	10.1 11.1	18 4 38 8 - 28 8 2 5.33 10 80
200	1.0 34.0	5.3 36.8 8181	0.8 34.8	8 8 33.8 1988	* 433;1	* 2 - 35.2 - 1831	12.4 35.5 	18.2 38 (-1.3803	17-7 20.4	18.3 30.8 8889	18 2 38.5	18 1 38.5	17.9 35.5 4818	17 8 38.8	17.8 30 5	17.8 36.5	18.0 38.8 - 5005
	- 2484	a. 28 22.65	93 3.37	4 E 18 08 3	2274	1001.	1 7549	-1 1003	u1 4587 01-16-120-7		, ,,2238	1 14 75 m		7975	21 41 3.23	0005	F 10 75 27 40
300		5 1 34.8		5.8 35 0					18 6 28 2			17 7 30 3			21 47 3.22 17 2 38 6	18.21 34 0	
	" "	. , , , , , ,															
	0051	2.28 (5 SZ	.0880 42 3 80		- 3008	- 0772 04 2 78	-1 0591 9 51 36 38	-1 (30) 14 24 41 91	-3 1817 52 76 172 84	- 8885 10.44 32 84	. 2580 4 57 8 88	7 10 12:25	C 20 17. 77	7345	2 '26 8 30	15 27 33 9	- 402a
00	4.9 34 8	4.5 34 9	4 8 34 9	4 8 35.0	3 (35.0	5 4 30 8	B 2 35 B	B.8 20 1	13 1 29 7	(8 8 38 3	17 8 28 4	18 8 38 3	10.3.30.2	15 7 30 1	15 2 38 0	15 8 38 1	38 4 38.3
80																	
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	. 1837	. 3991	at 1757 38	23 64 9 3 6	2161.	8917.	9103.	1 3000.	-2.3302	-1 9009	8.87 17 12	8190		1.3376	3817	-1.0038	1 1314
00		7.76 21 46 4.2 24 8	4.3 35 8	4 4 39.9			5 1 35 D		9 9 35 3	(3 3 39.7	13.8 35 6	13 3 39.7	12 4 35 #	11 3 35 4	10 4 33 3	11 0 35 4	12 4 35.8
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300	1235	1, 49 11 66	86 3 05 4.1 35.8	.11 ⁸³⁸² 89	11 2.01	08 72	1.49 8 82 4 0 35 B	30 87 73.37			5 57 14 83				1 00 3 70		_
	' ' ' '	1.7 71.1	4.1 33.0	2.1 35 0	4.2 39.0		• • • • •	***. 38.8	B.3 35.8	1 0 39.2	8.2 25.2	1 1 25.2	7 8 39 1	7 (30 (F B 33 1	7 0 33 1	7 6 35 1
																	1
900																	
	6 0807	. 031 . 03 3-21	.0072 .25 3.00	.0032	- 8211	0033	8782 - 36 7.71	r. 1110	- 2001	- 4333	1398	1014	1674	77.40		_ 1677	
000	6 03	.00 5-21	. 20 7.00	.02 10	00 70	82 (9	.361712121	11	2 46 16 6	3 71 15 70	E 28 5 88	#1 3 B7	1 40 6 1	1 82 8 81	28 1 62	1 10 77	1.11 1.15
	1 15-8 (-71) 11. 22-2 3 41 18. 22.3 (-73) 21. 12.9 1.50 24. 26.3 17.40	11.1	2. 23.8 9.07 1. 23.8 1.070721 7. 18.8 2.13 7. 23.1 -2.406 5.50	30.2 13. 30.22 13. 8.22 13. 10.2 18. 3.27 24.5 23. 4.46 29.	20. d 62. 60 51 72. 7 1773 1 2. 86 773 1 7. 5 1883 1 7. 5 1883 1 7. 5 1883 1 7. 1883 1 2. 1883 1 2. 2. 3. 3. 48 1	8 1 9. 84, 8 36 84, 8		1 18 2 08 3 13 2 18 0 28 11 1 25 2 07 7 2 26 2	1.4 24.2 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2	40. 44. 92. 90.	12.8	18 41 182 12 43 89 14 49 18 32 140 13 57 180 13 81 13	4.1 113 22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 62, 1 11 13 1 69, 1 1 99, 1 12 1 94, 1 1 99, 1 1 99, 1	1. 1	41, 23 41, 23 41, 23 41 23 52, 6 58 23 19	0.1
		20 MI	LES			(4 (-	+) SOUTHWA +) NORIHWA	IRD FLOW RO FLOW			20.8 36 1883 2.31 4		20 91 akke	ton spitable	*(4* \$45	M173 - 6100	

FIGURE 64. Solenoid division of North Atlantic Standard Monitoring Section A5 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 1-3 November 1966.

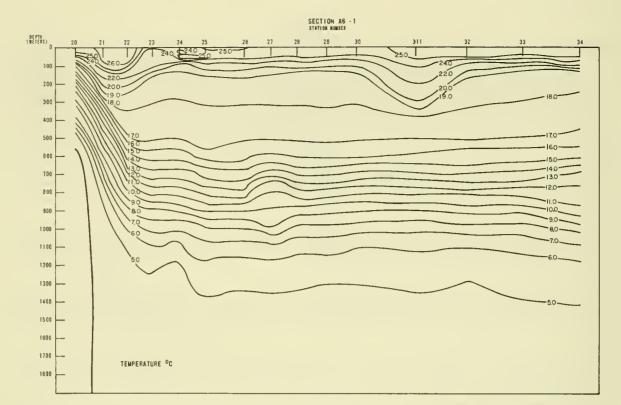


Figure 65. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A6 on 25-28 October 1966, prepared from data of USCGC EVERGREEN.

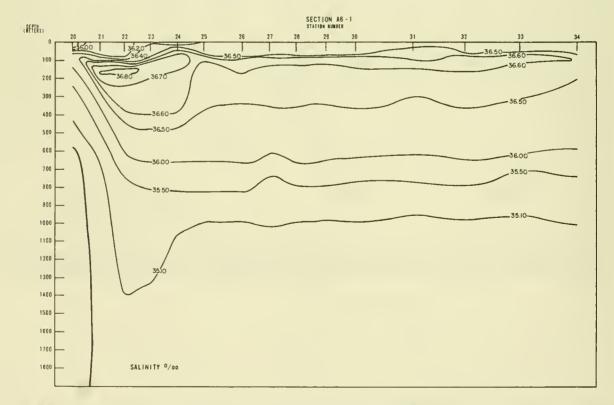


Figure 66. Vertical cross section of salinity (%) on North Atlantic Standard Monitoring Section A6 on 25-28 October 1966, prepared from data of USCGC EVERGREEN.

SECTION A6 -1 STATION NUMBER (METERS) 100 2 0 8 38 8 2 2 5 3 8 8 17 8 38 3 21 5 30 7 10.9 30 7 20-14 140 13 33 35 57 74 3 1580 97 2-33781 24 200 4 10 0 3 2.48 8 14 4 8 19 03 7.8231 07 # 58238 40 -88*38 94 5 18*10 88 2-57*25 11 1 12*42 42 31-74-4116 2000-76-1003 11.02-21 48 300 12 3 35 8 18 7 38 3 17.0 38 8 8578 1 83 2 17 2371 4 83 8 35 2837 - 0825 4 21 8 83 1 43 3 11 -2 4481 -3.1385 - 7285 28 92 80 88 52 33 717 23 12 80 27-11 - 8187 33 20 - 0813 - 3838 1 08 2 38 8 48 13 88 400 a.2 45.2 (15.7 15.8 500 - 8388 3401 - 1524 1472 1 80 2.20 6 17 20 25 2 36 3 71 2 52 3.52 2.00 0 33 1.54 3 40 5,81 12 00 7,38 10 5 - 1187 - 7250 1 89 4 39 12 31 27 18 -2 8730 -4 8588 -1 4884 21 85 85 88 88 32 178 28 24 78 33.78 600 700 - 9672 1 25 3 23 800 9 2 35-1 4.0 35 6 900 21239 82 99888324 -48431 8: 2.46114 89 18492.34 5499.5 -2824B 81 37 BB 52 9 # 27°25°35 2 0 1 2 72 -89073 44 1-67014-01 1000 28.8 1224 36.3 2.88 4.21 12 13 4 20 00 2 3, 72 20 00 10, 64 29 4 11 31 4424 10 88 28 7 28 38 1 29 38 1 19 1 -1 1765 48 20 85 78 28 8 = 8282 22,22 8282 38,81 24 5 1411 35 7 24 8 -1 8421 2 2 26.5 - 9399 - 1,39 24 7 1613 38 6 3 48 3 31 24 5 26 5 8T ⁰³⁷³7 46 24 9 38 1 3 18 ¹⁸²⁸5 81 24 8 22 28 4 25 8 9338 3 84 0338 1 28 24 2 30 4 1 77 1 78 28 5 ... 28 9 10. 24 5 38 3 82 82 82 29 1 38 4 78 8313 3 18 28 8 1987 18 2 23 8 19 4 22 8 8252 4 24.0 0101 38.7 23 7 1817 4 31 8 83 22.2 -1 5098 30 40 00 30 25_1 7373 10 1 42 07 14.33 29 3 7898 28 1 23 13 28 38 75 8 1483 5 81 28 1 7714 88 3 88 14 28.83 21 9 1314 3 88 24 5 2888 39 3 3 14 2888 7 88 24 8 0338 38 3 24 7 36 3 4 87 1878 26 1 1278 4 82 $24.4 \atop -2.72 \atop -3.27 \atop -3.27 \atop -1.24$ 21 5 9921 1 33 9921 0 23 4 13 37 24 8 38 4 3 48 5 20 24 8 38 4 1 87 9422 1 87 26 8 1.33 8334 8.07 21 4 30 2 2.29 1000 4.03 2331 1234 7 21 3 38.7 24 3 8345 1 38 21.2 8145 18.3 23.4 3.38² 722^{89.5} 7.89 21.5 28 T 3 08 5.48 21.5 2.12.0909 30.7 25 2 20 28 2 28 23 1 1973 3.88 25 8 1628 38 4 4 55 1628 9 82 53 21 2 -, 0278 7, 04 21 8 38 7 COME TOR TOLINOIS NUMBERS MESH \$4514177 0:00 # [4 M] T | # 4 M] (+) SOUTHWARD FLOW (-) NORTHWARD FLOW #[47]#4#\$P0#7 210 #Cm3/44F 3417 | TRANSPORT

FIGURE 67. Solenoid division of North Atlantic Standard Monitoring Section A6 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 25-28.

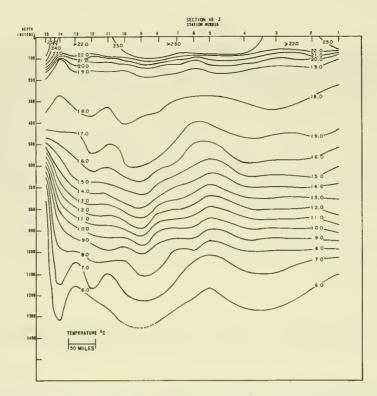


FIGURE 68. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A6 on 19-22 November 1966, prepared from data of USCGC ROCKAWAY.

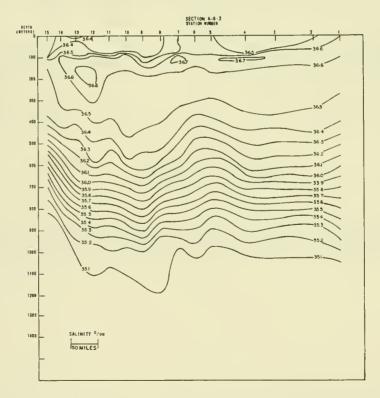


Figure 69. Vertical cross section of salinity (‰) in North Atlantic Standard Monitoring Section A6 on 19-22 November 1966, prepared from data of USCGC ROCKAWAY.

PTH ERS)											ON A-6				
"3)		-	14 1		2 1	,	_	9 6		_		5 4			2
		1 15	15	17	16	19	30	21	22	23	10 24	29	12	12	20
		28	30	31	27	11	24	15		97	10	20	48	41	42
100	_	43	44	- 13	4.0	-17		48	70	81	97	20.2 38.7	10.7 30.7	19.4 20.0	10.0 30.0
ł		97	7.0	99	80	91	82	- 13	84	85	88	20.2 38.7 +.3717 7.68 34.04	.07 1.28	19.4 20.0 +.0041 15	10.6 38.8 5.30 8.63
		87		5.0	70	71	72	72	74	7.6	36	4,2889 2,32 14,88	-, 0010 .02 .04	18.5 30.0 +.0844 .00 .17	18.1 28.6 1482 2.00 2.01
200	_	10,2	10.2	18.4	18.5	16,2	11.3	18.4	18.5	18.2	18.2	16.2 36.5	10.2 20.0	18.2 29.8	18.6 30.5
		-2.0710	*.8488 15.44	4.3928 7.32 14.80	. 0445	6.4185 7.82 15.78	*,2257 4,88 8,82	7005	#: 4743 E: 88	7.3777 1.01 10.27	2335				•
300	_	113.57	81.05		+: 0445 : 82 : 88			28.12	17.83		26.07	+.7937 14,43 28,67 17,8 38,8	.72 ,48	+.0207 .49 1.01	-, 2898 4,78 10.6
		17.8 30.6	17. 8 38. 7	18.6	20.9	10.8	18.0 28.6	10.0	17.8 28.5	17.7 38.3	17.8 28.4		17.9 20.5	17.8 38.3	17.0 30.0
		+3.868 178.80 178.77	# 7898 13.68 20.34	+.4011 7,23 15,00	+.0822 1,12 2,34	4,4187 7,84 13,74	0.7238 4.05 8.43	-,0000 17,71 20,27	∞, 2827 6, 12 12, 58	-, 5258 4.89 8.87	-, 5258 9, 23	+.7841 15.8 78.48	#.8042 .08 ,18	.0002	3, 17 0, 10
400	_	16, 5	18.3	17.0	17.2		17.8	17.4	17.1	10.5	10.0	19,3 18,7	18.7 38.3	18.7 30.3	11.4 10.2
		""."	74.1	70.1	7	30,4	10,5	77	****	70.4	**.*			-	
500	_														
														i	
		48,7907	01.3376 21.01 40.12	+. EB28 11.83	+.1782 2.08 8,71	+.8724 11.88	4 4800 1.02	-1.3514 23.56 00.71	17.7173 17.20 78.78	7:2510	9190 14.74 24.24	⊕1,2842 21.11 48,29	+.0847 1.08 2.42	+.0805 1,30 2.57	-, 2638
600	-									-		21.11 48.29 12.2 32.7	1,08 2,42	1,50 2,57	12.9 18.8
		10.1	13. 2	14.3	14.8 55.0	18.0	15.4 , 28.1	19.3	14.3	12.7	12.1				
700															
, 50	_														
		41.0075	0.7063	4.4896	+,1844 7,41 8,09	\$.3808 3.84	0.4823	49.1024	1.2632	2, 10	a, 8817	ф.7807 10,48 38,74	e. 1033	4.0211	m. 0181
800	_	147.50 0.74 32.1		8,71- 17,18- 10.0 31.1	10.8		17.01 11.1 29.5	10.03	5, 18 12, 42 0, 81 35, 3	8,71 25.3	21.78 8,27 99,2	10,48 28,74 8.32 25.2	9,1077 1,47 8,80 9,78 35,7	.28 ,78 9.78 35.3	-,0181 .22 .58
		37.1	35,1	31.1	15.4	32.4	29.5	39,4	15, 9	25.3	99.2				
200															
800	_														
		+1.6522 7.10	4.1880 1.88 8.74	0225	+. 0780 . 87	+.1118 1.20 4.03	+.1850 1.57	4828 7.24 12.83	-, 8198 -38 1,44	-, 0667 8, 47	7,7140 7,17 8,48	6,3131	a, 0773	. . 08 48	0150
1000	_	\$1.01	0.74	:11	. 87 2.84	4,05	0.00	12.03	1.44	2,42	, 0,40	2,02 11,17	,20 2.01	.02 2.35	.10 .00
	_														
	٢	1. 24.	01 +.2357	. 9 2.	22.7	15 ^{21.4}	2. 22.	9 20.4 e.0051	4, 1	927 21	1,4 5.	73,0 38.3	79. 19.7	38,8 72,	18.5 28.8
												79.0 28.2 9.1087 2.52 4.11	3.3	7,23	3, 22 8, 43
													3.3	7,23	3, 22 8, 43
		0. 21. 6.	2 4 - 2011 8 6 7:	. 5 7.	28.2 5.17	17 ^{30.2}	1. 22 <u>.</u>	4 28.4 1845 2.2	ø. :	2.7 38 2.40 3	.0 10.	22.7 2.19 20.8 2.19 2.25	5.5 79. 10 2 8.8	38.8 74_ 38.8 74_ 3570	9.7210 3.22 8.45 19.0 38.8 2580 4.88 8.89
		0. 21. 6.	2 4 - 2011 8 6 7:	. 5 7.	28.2 5.17	17 ^{30.2}	1. 22 <u>.</u>	4 28.4 1845 2.2		2.7 38 2.40 3	.0 10.	22.7 2.19 20.8 2.19 2.25	5.5 79. 10 2 8.8	7,23	9.7210 3.22 8.45 19.0 38.8 2580 4.88 8.89
		8. 21. 6. 71. 29. 3.	2 4-7011 86 7. 4-1870 92 8.	. 5 7. . 5 12.	23. 7 5. 17 22. 0 23. 0 23. 0 23. 0	38, 2 8, 26 8, 26 91 39, 4 91 4,,80	13. 22.	4 38,4 ,1845 2,21 8 28,5 8 38,5 5774 8	#. 2 5 14. 2	2,7 2,1014 2,101 2,1 2,1 2,7 1206 4	.0 10. .01 .0 19.	22.7 28.8 0381 2.13 2.25 24.1 28.2 +.300 7.21 11.20	5.5 79. 10 2 8.8	38.8 74_ 38.8 74_ 3570	9.7210 3.22 8.45 19.0 38.8 2580 4.88 8.89
		0, 23, 6, 11, 23, 3, 10, 22, 2,	2 4 7 4 1870 2 4 1870 8 7 2 4 7 4 1870 8 7	.5 7. .02 .5 12. .28 .4 17,	23.7 -, 22 5. 17 22.0 -, 12 2.87 22.3 +, 09 1.42	30.2 87 8.30 139.4 91 4.80 38.4 27 2.37	13. 22. 13. 22. 10. 22.	4 38 4 4 38 4 4 7 18 4 8 7 18 4 8 7 18 4 8 7 18 18 18 18 18 18 18 18 18 18 18 18 18	9, 2 5 14, 2 4 15, 2	3.7 3814 5 2.401 5 2.1 206 4 2.7 29 4 3.0 38 4.1038 3	.8 10. 1,81 1,8 19. 1,04 1,2 20.	22.7 2.0 201 2.10 2.4.1 20.30 2.27 21.20 22.7 20.100 20.7	5.5 79. 10 2 8.8	38.8 74_ 38.8 74_ 3570	9.7210 3.22 8.45 19.0 38.8 2580 4.88 8.89
		8. 23. 6. 11. 23. 3. 18. 22. 2. 21. 23.	2 38 38 38 38 38 38 38 38 38 38 38 38 38	.5 7. .02 .5 12. .28 .4 17. .89	23.7 	30.2 87 8.30 139.4 91 4.80 38.4 27 2.37	13. 22. 13. 22. 10. 22.	4 38 4 4 38 4 4 7 18 4 8 7 18 4 8 7 18 4 8 7 18 18 18 18 18 18 18 18 18 18 18 18 18	9, 2 5 14, 2 4 15, 2	3.7 3814 5 2.401 5 2.1 206 4 2.7 29 4 3.0 38 4.1038 3	.8 10. 1,81 1,8 19. 1,04 1,2 20.	22.7 28.8 0381 2.13 2.25 24.1 28.2 +.300 7.21 11.20	5.5 79. 10 2 8.8	38.8 74_ 38.8 74_ 3570	9.7210 3.22 8.45 19.0 38.8 2580 4.88 8.89
		8. 23. 6. 11. 23. 3. 18. 22. 2. 21. 23.	2 38 38 38 38 38 38 38 38 38 38 38 38 38	.5 7. .02 .5 12. .28 .4 17. .89	23.7 	38, 2 37 8, 20 39, 4 91 4,80 258, 4 27 2, 27 87 7, 48	13. 22. 13. 22. 14. 22. 15. 22. 1. 21. 22.	4 1845 28,4 1845 2,21 8 28,5 10774 28,5 7 38,4 7 29,5 7 28,2 7 28,2 7 28,2 7 28,2 7 28,2	9. 2 9. 14. 2 4 19. 2 7 24. 2	3.7 38 2.40 2 2.1 20 4 2.79 4 3.0 38 4.1038 3 3.7 28 2.19 3	1.0 10. 1.01 1.0 20. 1.2 20. 1.8 23. 1.4 23.	22.7 28.8 2.17 2.25 24.1 28.2 7.210 11.20 22.7 38.2 4.31 8.2 4.31 7.28 22.4 28.2 4.51 8.4	2,5 79. 10/2 0,0 20, 11.7 2.3	38.8 74_ 38.8 74_ 3570	3.27230 8.45 19.0 20.8 4.19200 0.05 19.1 2000 19.1 2000 4.19 2000 4.19 2000 4.19 2000 4.19 2000 4.19 2000 4.19 2000
		6, 23, 6, 11, 23, 3, 18, 22, 2, 23, 5, 29, 23, 2,	2	.5 7. .02 .8 12. .21 .4 17. .49 .22. .41 .47. .41 .47.	23.7 5.17 23.0 2.47 22.3 4.00 1.42 29.4 4.85 22.8 4.05 22.8 4.05	27 1, 26 27 1, 26 27 1, 26 27 2, 27	11. 22. 12. 15. 16. 22. 17. 17. 17. 17. 17. 17. 17. 17. 17. 17	4 1845 28.4 29.5 2.51 8. 28.3 28.3 28.3 28.4 29.5 2.01 28.3 28.3 2.01 28.3 28.3 28.3 28.3 28.3 28.3 28.3 28.3	9. 2 14. 2 4 15. 2 2 24. 2	2,7 2,40 5 2,10 20 2,1,10 20 2,7,10 20 2,7,10 20 3,10 20 3,10 20 3,10 20 3,10 20 3,10 20 3,10 20 4,8 40 4,8 40 8,7 5 12	1.0 10.1 1.81 35.1 1.04 20.1 1.8 20.1 1.41 1.2 30.1	22.7 2.10 2.11 2.12 2.11 2.22 2.21 2.22 4.50 2.24 4.50 2.24 4.50 2.24 2.24 2.25	3.5 79. 16:2 6.6 76, 16:3 7.3	1818 7.23 39.0 74. 39.0 74. 3 12.49 7 38.0 ? 1.448 9.51	3.27230 8.45 19.0 20.8 4.19200 0.05 19.1 2000 19.1 2000 4.19 2000 4.19 2000 4.19 2000 4.19 2000 4.19 2000 4.19 2000
		6, 23, 6, 11, 23, 3, 18, 22, 2, 23, 5, 29, 23, 2,	2	.5 7. .02 .8 12. .21 .4 17. .49 .22. .41 .47. .41 .47.	23.7 5.17 23.0 2.47 22.3 4.00 1.42 29.4 4.85 22.8 4.05 22.8 4.05	27 1, 26 27 1, 26 27 1, 26 27 2, 27	11. 22. 12. 15. 16. 22. 17. 17. 17. 17. 17. 17. 17. 17. 17. 17	4 1845 28.4 29.5 2.51 8. 28.3 28.3 28.3 28.4 29.5 2.01 28.3 28.3 2.01 28.3 28.3 28.3 28.3 28.3 28.3 28.3 28.3	9. 2 9. 14. 2 4 19. 2 7 24. 2	2.7	1.0 10.1.01 1.8 39.1.04 1.2 20.1.18 23.1.45 1.2 30.1.45 1.2 30.1.85	22.7 2.13 3.25 24.1 39.2 \$\frac{2}{2},200 11.20 22.7 4.90 20.2 4.90 20.3 22.4 30.5 4.00 0.5 22.4 30.5 4.00 0.5 22.4 30.5 4.00 0.5 22.5 10.5 22.6 10.5 22.7 10.5 22.6 10.5 22.7 10.5 22.7 10.5 22.7 10.5 22.7 10.5 22.7 10.5 22.7 10.5 23.7 10.5 24.1 10.5 25.1 10.5 26.1 10.5 27.2 10.5 27.3 10.5 2	3.5 79. 16:2 6.6 76, 16:3 7.3	1818 7.23 38.0 74, 39 12.48 7.33 12.48 7.348 78 7.448 5.51	1.21 7140 6.43 15.0 38.8 6.49 0.89 15.1 28.9 6.81 28.9 6.82 8.73
		8. 29. 6. 6. 71. 29. 3. 110. 22. 21. 29. 5. 29. 2. 91. 27. 11. 27. 11. 28. 29. 29. 20. 29. 20. 29. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20	2	.5 702 .5 1224 .4 1789 .3 7211 .4 27, .50 .4 38.	23.7 	38.2 8.26 39.4 4.80 58.4 27.237 29.4 7.49 48.5 29.4 11.02	10. 22. 27. 10. 22. 10. 22. 27. 29. 29. 29. 29. 27. 29. 29. 27. 29. 27. 29. 29. 27. 29. 29. 29. 29. 29. 29. 29. 29. 29. 29	4 38.4 4 11849 2.31 8 28.5 2 38.7 4 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	9, 1 14, 2 4 19, 2 24, 1 20, 2	3.7	1.0 10. 1.01 1.0 19. 1.04 1.2 20. 1.88 1.8 23. 1.43 1.9 30. 1.15 1.9 40. 1.7 40.	22.7 28.6 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15	3.5 79. 18:2 8.6 78. 18:3 7.3	1818 7.23 38.0 74, 39 12.48 7.33 12.48 7.348 78 7.448 5.51	19.0 34.6 -7980 6.91 19.0 34.6 -7980 6.91 19.1 35.0 34.6 4.91 19.1 7.980 7.91 4.44 8.73
		8, 23, 6, 11, 23, 3, 18, 22, 21, 23, 2, 21, 23, 21, 22, 11, 22, 11, 22, 4, 4,	2 2011 7. 4 20	.5 7. .02	23.7 5.17 22.0 12.0 12.87 22.3 6.09 1.42 23.4 4.83 22.8 6.09 22.87 22.87 23.4 4.83 22.87 23.4 4.83	38.2 8.28 39.4 4.89 58.4 27 7.48 7.48 7.48 18.5 18.5 19.4 19.4 19.4 29.6 39.6	10. 22. 10. 10. 22. 12. 22. 22. 23. 22. 23. 23. 23. 23. 23. 2	4 38.4 1.1843 2.33 2.33 2.33 2.33 2.33 2.33 2.33 2.	8, 2 14, 2 4 15, 2 7 24, 2 1 26, 2	3.7	1.0 10. 1.01 1.1 19. 1.02 1.03 1.04 1.04 1.04 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	22.7 28.8 27.2 28.8 27.2 24.1 28.2 27.2 27.2 27.2 27.2 27.2 27.2 27.2	2.5 79. 10.2 0.6 79. 11.3 70. 11.3 7.5 00 WEGN TOWN	1818 7.23 38.0 74, 39 12.48 7.33 12.48 7.348 78 7.448 5.51	1.21 7140 6.43 15.0 38.8 6.49 0.89 15.1 28.9 6.81 28.9 6.82 8.73
		8, 23, 6, 11, 23, 3, 18, 22, 21, 23, 2, 21, 23, 21, 22, 11, 22, 11, 22, 4, 4,	2 2011 7. 4 20	.5 7. .02	23.7 5.17 22.0 12.0 12.87 22.3 6.09 1.42 23.4 4.83 22.8 6.09 22.87 22.87 23.4 4.83 22.87 23.4 4.83	38.2 8.28 39.4 4.89 58.4 27 7.48 7.48 7.48 18.5 18.5 19.4 19.4 19.4 29.6 39.6	10. 22. 10. 10. 22. 12. 22. 22. 23. 22. 23. 23. 23. 23. 23. 2	4 38.4 1.1843 2.33 2.33 2.33 2.33 2.33 2.33 2.33 2.	8, 2 14, 2 4 15, 2 7 24, 2 1 26, 2	3.7	1.0 10. 1.01 1.1 19. 1.02 1.03 1.04 1.04 1.04 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	22.7 28.8 27.2 28.8 27.2 24.1 28.2 27.2 27.2 27.2 27.2 27.2 27.2 27.2	2.5 79. 10.2 0.6 79. 11.3 70. 11.3 7.5 00 WEGN TOWN	1818 7.23 38.0 74, 39 12.48 7.33 12.48 7.348 78 7.448 5.51	1.21 7140 6.43 15.0 38.8 6.49 0.89 15.1 28.9 6.81 28.9 6.82 8.73
		8, 29, 4, 11, 29, 3, 118, 22, 21, 23, 2, 2, 1, 29, 2, 4, 41, 22, 4	2	.5 702 .5 1221 .4 1789 .2 2211 .4 2759 .4 3244 3985 .8 42.	23.7 5.17 23.0 2.47 22.5 1.42 23.4 4.83 22.6 4.83 22.6 22.7	38,2 178,38 39,4 4,83 38,4 37,2,37 38,4 7,48 7,48 1,55 1,62 1,54 28,6 38,35 3,53 7,58 28,6 38,6 3,53	19. 22. 23. 23. 23. 23. 23. 23. 23. 23. 23	4 1,1845 2,314 3,447 18,737 18,73 38,4 427 18,73 18,73 38,4 427 18,73 18	8, 2 14, 3 4 15, 2 24, 2 7 20, 2 1 36, 2 7 44, 2	3.7, 1013 18 7, 1014 18 7, 1015 18 7, 78 120	1.0 10. 1.8 35. 1.0 20. 1.8 25. 1.4 25. 1.4 3 36. 1.8 3 37. 1.2 36. 1.5 47. 1.7 40. 1.7 47.	22.7 28.8 27.21 28.2 2.15 28.2 28.2 28.2 28.2 28.2 28.2 28.2 28.	0.5 79. 10.2 0.0 79. 11.3 7.3 00 WEAR TOWN 110 MCGR.	006 FOR TOLICHOTO NUM:	19.0 38.0 4.19 19.0 5.49 19.0 4.19 19.0 5.89 19.1 4.19 19.1 5.89 19.1 4.19 19.1 5.79 1
		8, 29, 4, 11, 29, 3, 118, 22, 21, 23, 2, 2, 1, 29, 2, 4, 41, 22, 4	2	.5 702 .5 1221 .4 1789 .2 2211 .4 2759 .4 3244 3985 .8 42.	23.7 5.17 23.0 2.47 22.5 1.42 23.4 4.83 22.6 4.83 22.6 22.7	38,2 178,38 39,4 4,83 38,4 37,2,37 38,4 7,48 7,48 1,55 1,62 1,54 28,6 38,35 3,53 7,58 28,6 38,6 3,53	19. 22. 23. 23. 23. 23. 23. 23. 23. 23. 23	4 1,1845 2,314 3,447 18,737 18,73 38,4 427 18,73 18,73 38,4 427 18,73 18	8, 2 14, 3 4 15, 2 24, 2 7 20, 2 1 36, 2 7 44, 2	3.7, 1013 18 7, 1014 18 7, 1015 18 7, 78 120	1.0 10. 1.8 35. 1.0 20. 1.8 25. 1.4 25. 1.4 3 36. 1.8 3 37. 1.2 36. 1.5 47. 1.7 40. 1.7 47.	22.7 28.8 27.2 28.8 27.2 24.1 28.2 27.2 27.2 27.2 27.2 27.2 27.2 27.2	0.5 79. 18:2 8.6 78. 16:2 78. 16:2 7.3 00 WEGN TEMP WEGN TEMP	1818 7.23 38.0 74, 39 12.48 7.33 12.48 7.348 78 7.448 5.51	19.0 38.8 4.19 0.89 19.1 2.89 19.1 2.89 4.19 0.89 19.1 28.9 4.14 28.7 8.73
		8. 29. 4. 11. 29. 5. 18. 22. 21. 29. 29. 29. 29. 29. 41. 22. 41. 27. 44. 27. 48. 21. 48. 21.	2	.5 702 .5 125 124 1789 .2 2211 .4 2793 .4 384 388 4788	23.7 0.17 23.0 2.67 12.3 1.42 23.4 4.87 22.8 \$\frac{4}{4}, \frac{1}{4}, \frac{1}, \frac{1}{4}, \frac{1}{4}, \frac{1}{4}, \frac{1}{4}, \frac	28.2 27.1 1.26 21.37 25.4 2.37 28.4 27.48 28.4 27.49 28.4 29.6 29.	10. 22. 23. 23. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25	4 28.4 29.5 2.31 8.6 2.31 8.7	9, 2 14, 3 15, 2 24, 3 20, 2 1 24, 3 24, 3 44, 2 45, 2	1.7, 1014 51 2.40 52 2.1, 120 52 2.7, 120 64 2.7, 120 64 2.30 64 2.30 73 3.2, 100 73 3.2, 100 73 3.4, 100 73 4.8, 100 73 4.8, 100 73 3.1, 100 73 4.8, 100 73 4.9, 100 73 4.1, 100 73 4.1	1.0 10. 1.01 19. 1.04 19. 1.2 20. 1.83 1.41 1.2 30. 1.83 23. 1.21 1.7 40. 1.9 49. 1.70 1.70 1.70 1.70 1.70 1.70 1.70 1.70	21.7 29.8 29.7 29.1 29.2 29.2 29.2 29.2 29.2 29.2 29.2	0.5 79. 18:2 8.6 78. 16:2 78. 16:2 7.3 00 WEGN TEMP WEGN TEMP	1818 7.23 39.0 74. 3370 12.48 2.1380.0 74 2.1483 9.91 OOG FOR SOLCHOSO NUM OC VOLUME FLOR 270 2 7440 270 27440 (+) SOUTHWARD F	19.0 38.8 4.19 0.89 19.1 2.89 19.1 2.89 4.19 0.89 19.1 28.9 4.14 28.7 8.73
		8. 23. 4. 11. 22. 2. 21. 27. 29. 29. 29. 29. 4. 4. 27. 49. 21. 27. 29. 40. 21. 27. 27. 27. 29. 40. 21. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27	2	.5 702 .8 1221 .4 1789 .2 7211 .4 2759 .4 384 3944 3983 .8 4780 .8 4787	23.2 0.17 22.0 1.47 22.5 1.42 22.5 23.4 4.82 22.5 25.4 4.82 27.5 27.6 27.7 27.7 27.7 27.7 27.7 27.7 27.7 27.8	138.2 178.26 19.26 1	19. 22. 1 19. 22. 1 19. 22. 1 19. 22. 1 20. 23. 23. 25. 25. 25. 27. 27. 48. 22. 48. 22. 48. 22. 47. 47. 47. 47. 47. 47. 47. 47. 47. 47	4 1,1845 28.4 1,1845 29.2 29.5 29.5 29.5 29.5 29.5 29.5 29.	9, 2 14, 3 15, 2 24, 2 29, 2 1 36, 2 1 46, 2 1 48, 3	1.7, 1014 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0 10. 1.01 39. 1.02 30. 1.03 30. 1.03 30. 1.03 30. 1.03 30. 1.03 40. 1.03 40. 1.03 40. 1.04 40. 1.05 40. 1.06 40. 1.07 40. 1.08 40. 1.08 40. 1.08 40. 1.08 40. 1.08 40.	22.7 28.1 22.7 28.2 24.1 29.2 27.27 11.10 22.7 4.58 7.28 22.4 28.2 22.6 28.4 22.8 28.4 22.8 28.4 22.8 28.4 22.8 28.4 22.8 28.6 2.7 27.2 22.8 28.6 2.7 29.5 22.8 38.6 2.7 29.5 23.2 38.5 24.5 29.5 25.5 29.5 26.5 29.5 27.7 28.5 28.5 29.5 28.5 29.5 29.5 29.5	0.5 79. 18:2 8.6 78. 16:2 78. 16:2 7.3 00 WEGN TEMP WEGN TEMP	1818 7.23 39.0 74. 3370 12.48 2.1380.0 74 2.1483 9.91 OOG FOR SOLCHOSO NUM OC VOLUME FLOR 270 2 7440 270 27440 (+) SOUTHWARD F	19.0 38.8 4.19 0.89 19.1 2.89 19.1 2.89 4.19 0.89 19.1 28.9 4.14 28.7 8.73
		8. 23. 4. 11. 22. 2. 21. 27. 29. 29. 29. 29. 4. 4. 27. 49. 21. 27. 29. 40. 21. 27. 27. 27. 29. 40. 21. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27	2	.5 702 .8 1221 .4 1789 .2 7211 .4 2759 .4 384 3944 3983 .8 4780 .8 4787	23.2 0.17 22.0 1.47 22.5 1.42 22.5 23.4 4.82 22.5 25.4 4.82 27.5 27.6 27.7 27.7 27.7 27.7 27.7 27.7 27.7 27.8	138.2 178.26 19.26 1	19. 22. 1 19. 22. 1 19. 22. 1 19. 22. 1 20. 23. 23. 25. 25. 25. 27. 27. 48. 22. 48. 22. 48. 22. 47. 47. 47. 47. 47. 47. 47. 47. 47. 47	4 1,1845 28.4 1,1845 29.2 29.5 29.5 29.5 29.5 29.5 29.5 29.	9, 2 14, 3 15, 2 7, 24, 2 7, 20, 2 1, 36, 2 7, 44, 2 1, 45, 3 54, 2	1.7, 1014 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0 10. 1.01 39. 1.02 30. 1.03 30. 1.03 30. 1.03 30. 1.03 30. 1.03 40. 1.03 40. 1.03 40. 1.04 40. 1.05 40. 1.06 40. 1.07 40. 1.08 40. 1.08 40. 1.08 40. 1.08 40. 1.08 40.	22.7 28.8 2.75 24.1 29.2 2.72 21.2 2.72 21.2 2.72 21.2 2.72 21.2 2.72 21.2 21.	0.5 79. 18:2 8.6 78. 16:2 78. 16:2 7.3 00 WEGN TEMP WEGN TEMP	1818 7.23 39.0 74. 3370 12.48 2.1380.0 74 2.1483 9.91 OOG FOR SOLCHOSO NUM OC VOLUME FLOR 270 2 7440 270 27440 (+) SOUTHWARD F	19.0 38.8 4.19 0.89 19.1 2.89 19.1 2.89 4.19 0.89 19.1 28.9 4.14 28.7 8.73
		. 11. 21. 23. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3	2 1970 198 197 197 197 197 197 197 197 197 197 197	.5 702 .8 1221 .4 1729 2211 .4 2792 .4 314 398 4285 .8 4787 .8 67.	23.2 0.17 22.0 1.27 22.5 1.02 23.4 4.83 27.6 .62 27.7 .64 27.7 .72 22.4 2.87 22.4 2.87 22.4 2.87 22.4 2.87 22.4 2.87 22.4 2.87 22.5 22.7 .60 .60 .60 .60 .60 .60 .60 .60	238.2 278.2 319.4 319.4 319.4 319.4 319.4 319.4 319.5 319.4 319.5 319.6 31	8. 22. 4. 19. 22. 22. 22. 22. 22. 22. 22. 22. 22. 2	4 28.4 29.2 29.2 29.2 29.2 29.2 29.2 29.2 29	9. 2 14. 3 15. 2 24. 2 20. 2 36. 2 44. 2 44. 2 34. 2	1.7 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.6 10. 18 19. 18 29. 18 20.	22.7 28.8 27.21 28.2 2.2 4.1 28.2 28.2 28.2 28.2 28.2 28.2 28.2 28	0.5 79. 18:2 8.6 78. 16:2 78. 16:2 7.3 00 WEGN TEMP WEGN TEMP	1818 7.23 39.0 74. 3370 12.48 2.1380.0 74 2.1483 9.91 OOG FOR SOLCHOSO NUM OC VOLUME FLOR 270 2 7440 270 27440 (+) SOUTHWARD F	19.0 38.8 4.19 0.89 19.1 2.89 19.1 2.89 4.19 0.89 19.1 28.9 4.14 28.7 8.73
		18. 21. 22. 24. 22. 22. 24. 25. 24. 25. 24. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25	2 4.7011 7.4 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	.5 702 .8 1221 .4 1789 .2 72111 .4 2793 .4 394 398 4787 .8 678 6720 .8 67.	23.2 0.17 22.0 1.42 23.4 4.87 22.5 4.87 22.6 22.7 4.87 22.8 22.7 22.7 22.7 22.7 22.4 23.4 23.4 24.87 22.8 22.7 22.8 22.7 22.8 22.7 23.4 24.87 22.8 22.8 22.8 23.4 24.87 22.8 22.8 22.8 23.4 24.87 24.87 25.8 26.8 27.8 2	38.2 37.2 39.4 4,89 37.2 37.3 7.48 39.6 31.87 39.6 30.3	19. 22. 27. 27. 27. 27. 27. 27. 27. 27. 27	4 1945 2 38.4 1958 2 39.5 39.5 39.5 39.5 39.5 39.5 39.5 39.5	9, 2 14, 3 19, 2 24, 3 29, 2 1, 39, 7 44, 2 1, 49, 3 34, 2 1, 59, 1	3.7 1014 3 7.7 1014 3	1.6 10.1 1.8 79.1 1.8 79.1 1.9 79.1 1.8 79.1 1.8 79.1 1.8 79.1 1.8 79.1 1.8 79.1 1.8 79.1 1.8 79.1 1.8 79.1 1.8 79.1 1.8 89.1 1.8	22.7 28.8 2.75 24.1 29.2 2.72 21.2 2.72 21.2 2.72 21.2 2.72 21.2 2.72 21.2 21.	0.5 79. 18:2 8.6 78. 16:2 78. 16:2 7.3 00 WEGN TEMP WEGN TEMP	1818 7.23 39.0 74. 3370 12.48 2.1380.0 74 2.1483 9.91 OOG FOR SOLCHOSO NUM OC VOLUME FLOR 270 2 7440 270 27440 (+) SOUTHWARD F	19.0 38.8 4.19 0.89 19.1 2.89 19.1 2.89 4.19 0.89 19.1 28.9 4.14 28.7 8.73
		18. 21. 22. 24. 22. 22. 24. 25. 24. 25. 24. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25	2 4.7011 7.4 1.7011 7.5 1.7011 7.	.5 702 .8 1221 .4 1789 .2 72111 .4 2793 .4 394 398 4787 .8 678 6720 .8 67.	23.2 0.17 22.0 1.27 22.5 1.02 23.4 4.83 27.6 .62 27.7 .64 27.7 .72 22.4 2.87 22.4 2.87 22.4 2.87 22.4 2.87 22.4 2.87 22.4 2.87 22.5 22.7 .60 .60 .60 .60 .60 .60 .60 .60	38.2 37.2 39.4 4,89 37.2 37.3 7.48 39.6 31.87 39.6 30.3	19. 22. 27. 27. 27. 27. 27. 27. 27. 27. 27	4 1945 2 38.4 1958 2 39.5 39.5 39.5 39.5 39.5 39.5 39.5 39.5	9. 2 14. 3 15. 2 24. 2 20. 2 36. 2 44. 2 44. 2 34. 2	3.7 1014 3 7.7 1014 3	1.6 10. 18 10.	22.7 28.8 27.21 28.2 2.2 4.1 28.2 28.2 28.2 28.2 28.2 28.2 28.2 28	0.5 79. 18:2 8.6 78. 16:2 78. 16:2 7.3 00 WEGN TEMP WEGN TEMP	1987 7.23 39.0 74. 3970 12.49 1.1988.0 74 1.1988.0 74 1.1988 5.51 OOG FOR SOLCHDSO NUM C VOLUME FLOR 210 210 210 210 210 210 210 210 210 210	19.0 38.8 4.19 0.89 19.1 2.89 19.1 2.89 4.19 0.89 19.1 28.9 4.14 28.7 8.73

FIGURE 70. Solenoid division of North Atlantic Standard Monitoring Section A6 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC ROCKAWAY, 19–22 November 1966.

TABLE 1

Cruise No.	Ship		Date	No. of stations	NODC No.	U.S. Coast Guard Publication No.
		Section 1				
A1-1	USCGC EVERGREEN		07/25-07/26/65	12	31-549	373-12
A1-2	USCGC EVERGREEN		06/06-06/07/66	12	31-8001	373-13
		Section 2				
A2-1	USCGC HUMBOLDT		03/11-03/12/66	14	31-702	
A2-2	USCGC EVERGREEN		04/07-04/08/66	10	31-8001	373-13
A2-3	USCGC EVERGREEN		05/26-05/27/66	11	31-8001	373-13
A2-4	USCGC EVERGREEN		11/06-11/07/66	13	31-8007	
		$Section \ 3$				
A3-1	USCGC MENDOTA		11/23-11/24/64	7	31-223	
A3-2	USCGC INGHAM		01/28-01/29/65	7	31 - 223	
A3-3	USCGC DUANE		02/14-02/15/66	11	31 - 792	
A3-4	USCGC HUMBOLDT		03/09-03/10/66	11	31 - 702	
A3-5	USCGC EVERGREEN		04/04-04/05/66	9	31-8001	373-13
A3-6	USCGC EVERGREEN		04/16-04/17/66	6	31-8001	373-13
A3-7	USCGC EVERGREEN		04/18-04/19/66	6	31-8001	373-13
A3-8	USCGC EVERGREEN		04/21/66	4	31-8001	373-13
A3-9	USCGC EVERGREEN		05/25-05/26/66	11	31-8001	373-13
A3-10	USCGC EVERGREEN		11/09-11/11/66	17	31-8007	
		Section 4				
A4-1	USCGC EVERGREEN		04/02-04/03/66	7	31-8001	373-13
A4-2	USCGC EVERGREEN		05/22-05/24/66	16	31-8001	373-13
A4-3	USCGC EVERGREEN		11/11-11/13/66	16	31-8007	
		Section 5				
A5-1	USCGC EVERGREEN		11/01-11/03/66	18	31-8007	
		Section 6				
A6-1	USCGC EVERGREEN		10/25-10/28/66	15	31-8007	
A6-2	USCGC ROCKAWAY		11/19-11/22/66	15	31-1061	

Table 2.—List of standard depths (meters) for electronically obtained serial data

0000	0100	0400	1000	1750	6000
0010	0125	0500	1100	2000	7000
0020	0150	0600	1200	2500	8000
0030	0200	0700	1300	3000	9000
0050	0250	0800	1400	4000	
0075	0300	0900	1500	5000	

Explanation of Oceanographic Station Data

Description of Entries, Units, and Codes on NODC Station Listing

1. Surface Observations

Electronic Control	Description of Dista
Entry NODC REF. ID. NO	Description of Field
COUNTRY CODE	NODC reference identity number. Indicates nationality of the institute or agency conducting the survey or expedition.
CRUISE NUMBER	A reference number assigned by NODC for storage-retrieval purposes, NODC Publication
OROTSIA MOMBERT	C-1, Reference Sources of Oceanographic Station Data, gives complete bibliographic
	and other pertinent information for each cruise.
SHIP CODE	Alphabetic representation of ship's name (or ICES numeric ship code).
LATITUDE	Degrees, minutes, and tenths of minutes, N. or S.
LONGITUDE	Degrees, minutes, and tenths of minutes, E. or W.
DRIFT INDICATOR	The letter D appears in this column if extensive drift occurred while on station.
MARSDEN SQUARE:	
10°	Marsden square number according to the Marsden square system.
1°	The 1° square number according to the Marsden square system.
STATION TIME:	
(GMT)	Date and time given by the originator (GMT).
MONTH	Month (GMT).
DAY	Day (GMT).
HR. 1/10	GMT to nearest tenth of an hour.
YEAR	Year.
ORIGINATOR'S	Alphabetic or alpha-numeric designator as assigned by the originator. If the year of
CRUISE NUMBER.	the cruise forms part of the cruise numbering system, the year digits are found in preceding field.
STATION NUMBER	Originator's station number or designator.
DEPTH TO BOTTOM	Corrected or uncorrected sounding depth in meters.
MAX. DEPTH OF	Depth of deepest sample in hundreds of meters to nearest hundred-meter interval.
SAMPLES.	Depart of deepest sample in numbers of inecess to nearest managed inecession
WAVE OBSERVATIONS:	
DIR	Direction from which the dominant waves are coming, in tens of degrees, according
	to WMO Code 0885.
HGT	Height of dominant waves according to WMO Code 1555.
PER	Period of dominant waves according to WMO Code 3155.
SEA AMT	Sea amount (sea state) according to WMO Code 3700 (preceded by the letter A).
WEATHER CODE	If preceded by the letter X, weather according to WMO Code 4501. A numeric two-digit
*TNOMP (OF OUT)	entry indicates weather according to WMO Code 4677.
*INSTR./CLOUD	This field is used either for recording instrument code when electronically obtained data
	are being reported, or for reporting cloud type and cloud amount when conventional
*TNIC/DD	Nansen cast data are being reported. A two character code representing instrument package of system.
*INSTR	Cloud type according to WMO Code 0500.
AMT	Cloud amount according to WMO Code 2700.
NODC STATION	Assigned by NODC for data storage and retrieval purposes. The NODC Reference Identity
NUMBER.	and Station number combined, uniquely define each station in the NODC archives.
*DT/*S ^U /D	This indicator specifies that the reported data have been obtained electronically rather
	than by Nansen-type casts. U (up) and D (down) are cast indicators for electronically
	obtained serial data and specify that the data were taken while hoisting or lowering
	respectively.
WATER COLOR	Water color according to Forel-Ule Code.
TRANS. (m)	Water transparency in meters as determined by Secchi disc.
WIND:	THE A STATE OF THE
DIR	Direction from which wind is blowing in tens of degrees, according to WMO Code 0877.
SPEED OR FORCE	If preceded by letter S, wind speed in knots; if preceded by letter F, wind force in
DAROMETER (mbg)	Beaufort code. Barometric pressure in millibars; tens, units, and tenths places only.
BAROMETER (mbs)	Datometric pressure in minibats, tens, units, and tenens places only.

AIR TEMPERATURE °C:	
DRY BULB	Dry bulb air temperature in degrees centigrade, to tenths.
WET BULB	Wet bulb air temperature in degrees centigrade, to tenths.
VIS CODE	Visibility according to WMO Code 4300.
NUMBER OBS, LEVEL	The number of observed levels associated with the station.
SPECIAL OBSERVA-	Entries in this space vary with individual cruises or stations. Information concerning
TIONS.	entries in this field can be requested from the NODC.

2. A complete description of the codes can be found in NODC publication M-2 (Rev. August 1964), "Processing Physical and Chemical Data from Oceanographic Stations."

TABLE I. Observed and interpolated oceanographic data taken by USCGC MENDOTA, 23–24 November 1964, and USCGC INGHAM, 28–29 January 1965, on North Atlantic Standard Monitoring Section 3; prepared from NODC listing No. 31–223.

REFERENCE				-=	MARSDEN	STATION TIA	ME	ORIGINATOR	'S D	EPTH MA		WAVE	WEA-	CLOUD	1		000	
CTRY IO.	CODE	LATITU	0E LON	GITUDE 120	SQUARE	MO OAY HR	YEAR	CRUISE STATIO	N N	OT OT	0831	HGT PER SEA	THER	TYPE AMT		ST	ATION	
31 22	3 ME	4444	N 04	933 W	149 49 WAT		05 1964	A ID TEAAD T		052 0	31	2	X1	8 5		(0001	
					COLOR	TRANS, DIR.	SPEED METI	R ORY WE	T CODE		ECIAL							
						29	S19 25			03								
	MESSENGR TIME HR 1/10	y NO.	CARO TYPE	OEPTH (m)	T *C	s */**	SIGMA-T	SPECIFIC VOLUME ANDMALY-X107	₹ △ ¤ OYN. M. x 10 ³	AEFOCITA 200MD	O ₂ ml/I	PO4=P ug = at/(101AL-P pg - 01/1	NO2-N ug = at/i	NO3-N ng - al/l	\$1 O 4-\$1 µg - at/1	рН	500
			STO	0000	0479	3283	2601	0020104	0000	14673			}	İ	Ī			
	20	5	OBS STD	0000 0010	0479 0479	32834 3284	2601 2601	0020063	0020	14673 14674								
	20	5	S T 0 0BS	0020 0025	0478 0478	3285 32850	2602 2602	0020015	0040	14676 14676								
			STD	0030 0050	0462 0347	3287 3304	2605 2630	0019684 0017330	0060 0097	14671 14628								
	20	5	OBS	0050	0347	33038	2630			14628								
REFERENCE	SHIP	LATITU	DE LON	GITUDE # 20	MARSDEN SQUARE	STATION TIA	AE YEAR	ORIGINATOR		DEPTH OEPT	H ORS	WAVE ERVATIONS	WEA- THER	CLOUG		N ST	OOC	
31 22	COOE	4438	1/10	1/10 ° Z	10" 1"	MO OAY HR	.1/10	HO. NUM	IER BO	S'MP	L'S DIR	HGT PER SEA	CODE	TYPE AMI		N	JAMBER	
31 22	13 ME	4430	13N 04	922 W	149 49 WAT		120 1964	A ID TEAMP		NO. 5	1 30	2	X1	7 4	ŀ		0002	
					COLOR	TRANS, DIR.	FORCE (mb:	BULB BULB	B CODE	CHTHS OBSE	EVATIONS							
	MESSENGA					30	514 26	· · · · · · · · · · · · · · · · · · ·	26 7 ₹ Δ D	03		1 20 2						1.
	TIME HR 1/10	NO.	TYPE	DEPTH (m)	T C	s */	SIGMA-T	SPECIFIC VOLUME ANDMALY—X107	OYN, M. x 10 ³	VEFOCITA	0 2 ml/l	PO4-P yg - 01/1	101A L-P µg - ol/I	NO2-N ug - al/l	NO3-N	\$1 O4-\$1 \le = gu	рН	CC
			STO	0000	0482	3283	2600	0020187	0000	14674	-					-		
	22	0	OBS STD	0000	0482 0480	32827 3283	2600 2600	0020180	0020	14674 14675								
	22	0	STD 085	0020 0025	0479 0478	3283 32826	2600 2600	0020179	0040	14676 14676								
			STO STO	0030	0455 0286	3286 3312	2605	0019688 0016186	0060	14668								
	22	4	085	0054	0238	33189	2652	0010100	00 70	14583								
REFERENCE	qin2			← #<	MARSDEN	STATION TIM		ORIGINATOR	*S E	DEPTH MA		WAVE	WEA-	Crono			ODC	
CODE NO.	CODE	LATITU	1/10 LOF	GITUOE BE	SOUARE	MO DAY HE	YEAR	CRUISE STATIO	ON SER BC	OT OTTO		HGT PER SE	COOE	TYPL AMI			ATION	
31 22	3 ME	4432	5N 04	855 W	149 48		19 1964	AIR TEMP. 1	2	344 0	3 28	2	X1	7 4	!	- 1	0003	
					COLOR	TRANS. OIR.	SPEED METI OR (mb	ER DRY WE	T CODE_	NO. OBS. EPTHS	PECIAL							
						26	508 26			08								
	MESSENGR TIME HR 1/10	약 HO.	CARD TYPE	DEPTH (m)	7 °C	s */	SIGMA-T	SPECIFIC VOLUME	₹ △ D DYN, M, x 10 ³	AEFOCITA ZONNO	0 ₂ ml/I	PO4-P vg = 01/1	101A L→P µg · oi/i	NO2~N yg - al/l	NO3-N ug - al/l	\$1 O4~\$i µg = 01/1	рН	200
	1		STD	0000		3343	ł	1	ŀ		1		١		-	1		11
	01	9	08S STD	0000 0010		33430 3343												
	01	9	STD OBS	0020		3343 33433												
	01		STO OBS	0030	0124	3359	2720			14542								
	01		ST0 085	0050		3398 3340Q	2723	0008504		14545								
			STO	0075	0146	3414	2735	0007417		14559								
	01	7	08s ST0	0091	0162	3423	2741	0006854		14568 14572								
	01	9	ST0 OBS	0125 0139	0174 0181	3426 34276		0006722		14582 14587								
	01	9	STD 085	0150 0188	0186 0202	3428 34303	2743 2743	0006670		14591 14605								
			STD STD	0200 0250		3432 3442	2744 2751	0006552 0005960		14609 14626								
	01	9	085	T0288	0234	34528		000000		14638								

																		1 11 22									
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t		14.5	4 4 2 3		0.6			1						_		-+	7105				31.2						
L]	223	ME	4431	N	04	841 W	149	48		W18	/D		LC1	OO AIR TE			2195	11	28	2	١	X 1	7 4	I	- 1	0004	
								COLOR			SPEED	BARD- METER	-	DRY	WET	COOE	ND, DBS.	ORCED	ECIAL VATIONS								
								CODE	(m)	DIR.		(mbs)	8	ULB	BULB		DEPTHS	Desch	* A 110113								
										26 5	808	280	0	11	-011	. 7	12										
		MESSENGR	CAST	CA	RD .	D COVIL (-)	Ι,	70	5 .	,		, s	PECIFIC	volu	ME S	ΔP	50	מאט	0	PO4-P	10	TAL-P	NO2-N	ND3-N	\$104-		5
		TIME 0	NO.	TY	PE	DEPTH (m)	'	C	1 1		SIGMA-	'	MOM	ALY-XI	07	YN. M. X 10 ³	VEL	OCITY	D2 ml/l	μg - Q1/	וע ח	g = et/I	yg = at/1	yg - at/1	yg - 01/		č
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				5	OTO	0020	0	460	341	7	2709)	000	988	0 0	020	14	+686									
		047		OB	5	0024	0	462	341	74	2709)					14	+687									
				5	OT	0030	0	469	342	0	2710)	000	976	8 (030	14	4692									
		0 4 7		OB	15	0049	0	473	343	23	2719)					14	698									
				S	TD	0050	0	471	343	3	2720		000	883	5 (048	14	697									
		047		OB	-	0074		435	345		2740						14	689									
					TD	0075		434	345		2741		000	689	4 (068		689									
		047		08		0098		409	346		2753				_			+684									
				_	TD	0100	_	407	346		2754			1566	-	084		684									
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		047		0 B	TD	0150 0197		382	347		2764		000	470	9 (109		683									
		041			10	0200		375	348		2769		000	430		132		688									
					TD	0250		366	348		2770)430)426		1152		689									
		047		08		T0297		364	348		2772		000) (1400		700									
		0.41			TD	0300		365	348		2772		000	1407	3 (174		701									
					TO	0400		383	349		2776			388		214	_	726									
		047		QB		0400		383	349	_	2776		0.00			-14		726									
					TD	0500		373	349		2776		000	394	2 0	1253		738									
				5	TD	0600		364	348		2776			399		1293		751									
		047		OB	5	0606		363	348		2776			,	- '	- / 3		752									
				S	TO	0700	0	360	348	9	2776		000	404	6 0	333		766									
				5	TD	0800	0	357	348	9	2777			410		1374		781									
		053		OB	5	T0897	0	354	348	92	2777						14	796									
				S	TO	0900	0	354	348	9	2777		000	415	4 (415	14	797									
				5	TD	1000	0	351	348	9	2777		000	420	2 0	1457	14	812									
				5	TD	1100	0	349	348	9	2777		000	425	9 (1499	14	828									
		053		OB	5	1122	0	348	348	92	2777						14	831									

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DE	10. NO.	COOE	*	1/10	1/10	10, 1,	MO TOAY IN			STATION NUMBER	W.S WOLLOR	F		CODE				UMBER
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							30	505 2	_	-017 7	1 1		-					
			,				30	309 20	80 011		13						7	
		MESSENGR TIME	CAST	CARO	OEPTH (m)	T *C	s */	SIGMA-T	SPECIFIC VOLU	in? OTN. M	. SOUNO VELOCITY	O ₂ ml	/1 PO4-P	TOTAL-P	NO2-N	NO3-N yg - at/l	SI O4-Si	рН
		HR 1/10				-				x 10 ³	11200111		75 - 517.	59 - 6171	Dg - 0131	pg = 001	pg - 0.71	
			1 1			0.7/		24.10			1,50				I		1	į.
		088		STD	0000	0740		2610 2610	001920	0000	14789							
		000	•	STO	0010	0740		2610	001922	28 0019								
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				STD	0030	0741	3337	2610	001927	77 0058	3 14790							
		088	3	085	0049	0.742	33364	2609			1479	4						
				STD	0050	0729	3341	2615	001881	16 0096	14789	9						
		088	3	085	0074	0560		2698			14736							
				STD	0075	056		2699	001084	44 0133								
		088	3	085	0098	0687		2712	000043	01.0	1479							
				ST0 STD	0100	0688		2713 2720	000962									
		088	2	085	0148	0700		2725	000092	0102	1481							
		000	,	STD	0150	0695		2726	000846	68 0203								
		088	3	OBS	0198	0599		2739			14780							
				STD	0200	0595	3476	2739	000721	15 0243	1477	7						
				STD	0250	0520		2749	000629	94 0276	1475	5						
		088	3	085	T0297	0479		2755			1474							
				STD	0300	0479		2755	000575	59 0307								
		088	3	OBS	0398	0485		2766	000/0		1476							
				STD STD	0400 0500	0485		2767 2771	000481									
				STD	0600	0445		2774	000455									
		088	3	085	0601	0445		2774	00045.	, , , , ,	14786							
				STD	0700	0431		2775	000428	38 0494								
				STD	0800	041		2777	000422									
		088	3	OBS	T0805	0416	34968	2777			1480							
				STD	0900	0399	3495	2777	000425	51 0579	1481	5						
				STD	1000	0384		2778	000423	37 0621								
		088	1	085	1010	0383		2778			14828							
				STD	1100	0374		2778	000427									
		0.00		STD	1200	0367		2779	000427	9 0707								
		088	5	OBS	T1215	0366	34928	2779			14855)						

ID.	SHIP	LA TITU	DE L	DNGITUDE 11/10	MAR SOU	ARE		TIDH TI (GMT)		YEAR	CRUISE ND.		DTAI TATZ	IDN	DEPTH TO BDTTDM	MAX. DEPTH OF	1	WAVE SERVATI	2NOI	WEA- THER CDDE	CLDUD CDDES		51	ADDC ATIDN UMBER	
				1710		+					1	-				-	-	1	N SEA	+		1			
223	ME	4416	N O	47205W	149		11			1964		_			3795	12	28	2	1	X1	7 7	1	1	0006	
						WAT	_	_	SPEED	BAR	o-	AIR TE	_	VIS.	ND. DBS.		CIAL								
						CDLOR	TRANS	DIR.	OR	M ET		DRY IULB	BL	JLB COD	DEPTHS	DBSERV	2 NOIT A								
							-	28	505	30		22	-0		13										
					Ţ		ļ	20	1	100	0 1 0		L.		Ц.	L ,									\neg
	MESSENGR TIME	CAST	CARD	DEPTH (m)	1	*c	S	٠/	SIGN	I-A	SPECIFIC	C VOL	JME	₹ ∆ D DYN. M	50	UND	D2 ml/	1 104		OTA L-P	NO ₂ -N	NO ₃ -N	\$104-51	рН	200
	HR 1/10	T NO.	TYPE								ANUN	ALY-X		x 103	VEL	DCITY		νg •	61/1	μg = n1/l	νg - α1/ί	νg - σ1/1	µg = al/1		С
																									П
	1	' '	STD	0000	0	718	33	49	262	23	001	801	5	0000	14	778		1							
	122	2	085	0000	0	718	33	488	262	23					14	778									
			STD	0010	0	719	33	50	262	23	001	795	0	0018	14	780									
			STD	0020		721	-	52	262	24	001	787	7	0036	14	782									
	122	2 ノ	085	0023		721		519	262							783									
			STD	0030		605		55	264		001	617	4	0053		739									
	122	2	085	0047		456		759	26			20.	_			683									
	122	,	STD	0050		469		86	268		001	234	0	0081		690									
	122	-	OBS STD	0070 0075		557 589		376	27		000	022		0100		737									
	122	,	0BS	0073		660		46 691	271		000	923	9	0108		752									
	142	-	STD	0100		641		70	272		000	813		0130		786 780									
			STD	0125		587		73	27			726		0149		763									
	122	,	OBS	0138		562		738	274		000		, 0	017)		755									
			STD	0150		540		73	274		0.00	673	4	0167		748									
	122	2	OBS	0185	0	492	34	722	274	49						734									
			STD	0200	0	490	34	75	279	51	000	606	7	0199	14	736									
			STD	0250	0	480	34	82	279	58	000	548	7	0228	14	741									
	122	2	OBS	T0276		473		849	276	51					14	742									
			STO	0300		463		86	276		000	505	2	0254	14	742									
	122		OBS	0369		439		891	276					- > -		744									
			STD	0400		433	_	90	276			452		0302		747									
			STD	0500		414	34		277		000	433	7	0346		756									
	122	2	OBS	0553		405		919	277					- 2		761									
			STO	0600		398	34		277			420	_	0389		766									
	122	,	ST0 08S	0700 10744		385	34		277		000	417	U	0431		777									
	122		STD	0800		380 375	34	912	277		000	417		04.73		782 789									
			STD	0900		367	34		277			417		0473		802									
	122	,	085	0945		365		909	27		000	-4 X 1	1	0514		809									
			STO	1000		363	34		27		000	420	9	0556		817									
			STD	1100		361	34		27			419		0598		833									
	122	2	OBS	T1154		361		924	27		000	,	-	3-70		842									

								-						,				,			
FERENC	SHIP	LATITI	uns.	LONGITUDE #2	MARSDE		STATION TIN	ME YEAR		GINAT		DEPTH TO	MAX		WAVE	NS	WEA-	CLOUD			NODC TATION
Y IC). Leons	·	1/10	LONGITUDE 1/10			O DAY HE		CRUISE NO.		TION MBER	BOTTOM	S'MPL	L	HGT PER		COGE	TYPL IAM			UMBER
1 2	23 ME	4408)46415W		6 1		57 1964	LC1 C	007		3840	13	1	2		X 1	8 3			0007
11 -	20/11/2	1 4400	3311	70415#	14/	WATE		IND	A ID	TEMP.		NO.			14		1 ~ 1	1013	1	- 1	0007
						LOR	RANS DIR.	SPEED MET	TER DRY	1	VET CODE	OBS.		CIAL VATIONS							
					C	300	1m1	FORCE (m)	_	_	ULB	DEPTHS									
							31	505 28	30 028	3 0	00 7	13									
	MESSEN		CARD	DEPTH (m)	1 '0		s */	SIGMA-T	SPECIFIC V		₹ △ D DYN, M.		UND	O2 ml/	PO4-		DTAL-P	NO2-N	NO3-N	\$1 O4\$i	pН
	HR 1/		TYPE						ANOMALI	-X10	x 10 ³	VELO	OCITY		yg - a	VI 1	/g - a1/l	NB - 01/1	µg - a1/1	μg = 01/l	, ,
			ST		082		3330	2592	00209	942	0000		818								
	1	57	OBS	0000	082		33297	2592					818								
			ST		081		3329	2593	0020		0021		814								
			STO		079		3329	2595	00206	25	0042		810								
	1	57	OBS ST	0026	078		33287 3329	2597 2599	0020	345	0062		807								
			STI		072		3340	2614	0018		0101		789								
	1	57	OBS	0053	072		33433	2618	00100	774	0101		787								
	•		ST		046		3385	2683	00123	355	0140		691								
	1	57	OBS	0079	044		33927	2691					685								
			ST	0100	052	9	3438	2717	0009	161	0167	14	730								
	1	57	OBS	0104	054	0	34439	2721				14	736								
			ST	0125	053	36	3451	2727	0008	300	0189	14	739								
			ST		05		3458	2733	0007	703	0209		740								
	1	57	OBS	0157	052		34593	2735					740								
			ST		049	-	3466	2743	0006	796	0245		736								
	1	57	OBS	0210	049		34673	2745	0005	201	0.177		736								
			ST(048		3476 3484	2752 2760	0005		0277		741								
	1	57	OBS	T0315	04		34860	2761	0005.	101	0306		750								
	1	, .	ST		046	-	3493	2768	00046	575	0356		761								
	1 5	57	OBS	0422	046		34945	2770	0004		0-00		763								
			ST		043		3493	2772	0004	380	0401		763								
			ST		040	1	3492	2774	00042	213	0444	14	767								
	15	57	OBS	0634	039	4	34913	2774				14	770								
			ST		038		3492	2775	0004		0486		778								
			ST		038		3492	2776	0004	208	0528		793								
	1	57	OBS	T0848	038		34920	2776					799								
			ST		037		3492	2777	0004		0570		807								
		. 7	STO		03		3492	2777	0004	243	0613		822								
	1	57	OBS	1064	037		34924 3492	2778 2778	0004	200	0655		831 836								
			ST		036		3492	2778	0004		0698		850								
	1.1	5.7			035		34913	2779	0004	17	0098		860								
	1	57	OBS	T1280	03) 4	54913	2119				14	000								

REFERENCE SHIP		E E	MARSDEN	STATION_TI		ORIGINATOR'S		DEPTH	MAX, DEPTH OR		WAVE	WEA-	CLDUD			NOOC
CTRY ID. CDDF	LATITUDE	LDNGITUDE	SQUARE	IG MT)	YEAR		ATION	EDTTOM	OF		ERVA TIONS	CDDE	CODES			TATION
CODE ND.	1/10	1/10 =		MO DAY H	R.1/10	ND. N	JAABER	10 11011	S'MPL'S	DIR	HGT PER SI	A	TYPE AM	T		10711011
31 223 IN	4408 N	04638 W	149 46	01 28 1	64 1965	LC2 001		3860	12	14	2	X 2	5 8			0032
	IND BAR	O+ AIR TEM	P. °C	NO.	SPEC	IAI										
			CDLOR	TRANS. DIR.	SPEED MET		WET COO		DESERVA							
					FORCE [mb			-								
				16	515 03	0 106	100 6	13								
MESSENGR	CAST CARE		T *C	/		SPECIFIC VOLUM	E SAD	SDI	UND .		PO4-P	TOTAL-P	NO2-N	NO3-N	SI Da-S	
TIME of HR 1/10	ND. TYPE		1 , c	s */	SIGMA-T	ANOMALY-X10	X 10 ³	VELI	DCITY	D ₂ ml/l	μο = at/l	μg = ot/1	μg - αI/I	yg = a1/1	µg = at/	
71K 1710			-	-			-	_			 					
1	! [0000	0640	3375	3451	0015034	1 0000	, 1,	750		1	ļ	I		I	1
164	S1 085		0640 0640	33754	2654 2654	0015036	0000		750							
104	ST		0638	3375	2654	0015048	0015		750 751							
	ST		0635	3375	2654	0015048	0030		752							
164			0634	33749	2654	0015051	0000		752							
10 .	ST		0634	3375	2655	0015013	0045		753							
164			0635	33765	2655	001-013	0012		756							
	ST		0696	3402	2667	0013835	0074		784							
164	-		0833	34728	2703			-	850							
	ST	D 0075	0779	3467	2707	0010170	0104		829							
164	OBS	0091	0672	34562	2713				789							
	ST	0 0100	0671	3461	2717	0009182	0 ± 28		790							
	ST	0 0125	0667	3472	2726	0008352			794							
164	OBS	0137	0665	34758	2730			14	796							
	ST		0642	3478	2735	0007621	0170	14	789							
164	085	0184	0595	34831	2745			14	777							
	ST	D 0200	0595	3487	2748	0006425	0205	14	780							
	ST		0584	3496	2756	0005686	0235	14	785							
164			0569	34980	2760			14	784							
	ST		0544	3497	2762	0005184	0263		777							
164			0477	34933	2767				761							
	ST		0468	3494	2769	0004624			762							
	ST		0437	3494	2772	0004374	0357	1 14	766							
164			0419	34941	2774			14	770							
	ST		0413	3494	2775	0004201	0400	14	772							
	ST		0396	3493	2776	0004177	0441	14	782							
164	0		0385	34926	2776			14	790							
	ST		0383	3492	2776	0004193			793							
	ST		0376	3490	2775	0004349	0526		à08							
164			0370	34885	2775				819							
	ST		0370	3489	2775	0004476) 14	820							
	ST		0365	3488	2775	0004509			835							
	ST		0362	3488	2775	0004564	0660	14	850							
164	085	T1210	0362	34883	2775			14	852							

EFERENC	- SHIP		TITUOE		ONGITUDE BOOK	MARSOEN SOUARE	STATION TO	IME YEAR	ORIGINA CRUISE ST	TOR'S	OEPTH	Othi	H OR	WAVE SERVATION	S THE			5	TATION
TRY IO.		٠ ا ا		/10	ONGITUDE 50	10* 1*	MO DAY H			UMBER	80110	M S'MPL	1	HGT PER	500		1		UMBER
31 22	3 IN	44	15 N	\rightarrow	47165W	149 47		223 1965	LC2 002	,	3705	13	09	2	х 8	76			0033
- 11	-1	1		. , -		WA		VINO	A ID TEM	P. °C	T NO	1			1 70		'	'	0055
						COLO		SPEED METI	ER ORY	WET CO	000	00000	ECIAL VATIONS						
						COOE	(m)	FORCE (mb)		BULB	-	1							
							16	523 00	0 100	100 6	13	1							
	MESSE	NGR C	AST	CARD	OEPTH (m)	τ ℃	s */	SIGMA-T	SPECIFIC VOLUA		D SC	OUNO	O2 ml/	PO4=P	TOTAL-		NO3-N	S1 O4-Si	ρН
	HR 1	/10 T N	10.	TYPE	02.1.1	' "		313.11.11	ANDMALT-X10	X 10	3 VE	LOCITY		yg - a1/1	yg • c1/	μg - α1/1	νg - αt/l	yg - a1/1	, r.
	ı		'	STD	0000	0620	3388	2666	0013879	000	0 1	4744	,	•					
	2	23	(OBS	0000	0620	33876	2666			1	4744							
				STO		0650	3390	2664	001407			4758							
				STD		0679	3404	2671	0013420	002		4773							
	2	23	(DBS	0021	0682	34067	2673	001567			4775							
	2	23	,	STD OBS	0030	0833	3444 34684	2680	001257	3 004		4839 4880							
	2	23	,	STO		0932	3470	2685 2685	001218	006		4883							
	2	23	(085	0059	0934	34728	2687	001210	. 000		4886							
	-		Ì	STO		0929	3479	2693	0011513	3 009		4887							
	2	23	(OBS	0079		34809												
				STD	0100	0920	3493	2705	0010395	012	2 1	4890							
	2	23	(OBS	0121		34987												
				STD	0125	0912	3498	2710	000994	3 014	8 1	4892							
				STD		0903	3495	2709	001008	3 017		4892							
	2	23	(OBS_	0165	0898	34931	2709				4892							
				STO		0769	3488	2725	0008681			4849							
	2	23		STO OBS	0250	0639 0624	3481 34794	2737 2738	0007536	5 0 2 6		4805 4800							
		23	,	510		0605	3489	2748	000654	3 029		4801							
	2	23	(OBS	0358	0575	34981	2759	00000	029		4799							
	-		Ì	STO		0541	3498	2763	000520	2 035		4793							
				STD		0474	3497	2770	0004583		3 1	4781							
	2	23	(OBS	T0574	0436	34962	2774			1	4778							
				STD	0600	0428	3496	2775	0004232	2 044	7 1	4779							
				STO		0403	3495	2776	0004146	5 048	9 1	4785							
				STD		0386	3493	2777	000414	7 053		4794							
	2	23	(oBs	0806	0385	34930	2777				4795							
				STO		0383	3493	2777	0004194			4809							
	2	23		STO	1000	0380	3494	2778	000422	5 001		4825							
	2	23	,	OBS STD		0378 0376	34936 3494	2778 2778	000425	8 065		4832 4840							
				STO		0371	3494	2779	000427			4855							
	-	23		085	T1292	0366	34937	2779	3007271	5 010	-	4868							

CTRY	ID.	SHIP	LATITU	DE	LONGITUDE	ADC ADC	MARSDEN SOU ARE	STATION TO		YEAR	CRUISE		TION	-	DEPTH TO	MAX, DEPTH OF		W A '	VE ATIONS	WEA- THER	CODES			NDDC
CODE	NO.			1/10	1/1		10" 1"	MO DAY H	R.1/10		ND.	NU	MBER		BOTTOM	S'MPL"	DIR	HGT	PER SE	CODE	TYPE AM	7		NUMBER
31	223	IN	4422	SN	047575W	1	149 47	01 29 0	23 1	1965	LC2	003			3318	15	31	2		х 6	76		İ	0034
		'					W.A		/IN D	BARC	4.5	RTEMP	. 'c		ND.			i - '	'	1 40	, , , ,	'		000
							CODE		SPEED DR FORCE	METE (mbs	R DF		WET C	VIS.	000	DBSERV	ATIONS							
								31	515	041	0 02	8 (28	7	13									
	[MESSENGR	CAST	CAR					Τ	<u>'</u>	SPECIFIC	VOLUME.	1 2 /	. M.	100	סאנ		1	D4-P	*****	NO. N	NO 11	T.,,	
		TIME HR 1/10	T NO.	TYP		(m)	1 °C	s */	SIGM	T-A	ANOMA	Y-X107	DYN	1. M.	VELD	CITY	02 ml/		- 61/1	TOTAL-P up - at/l	ND2-N µg - ot/l	NO3-N µg - of/1	SI D4-	
		AK 1/10	-			-			+	-			1	-				+-				-		-
]			 51	000 م	0 1	0606	3390	267	,	0013	E 0 0	1	20	1.6	720			- 1		1		1	1
		023	1	089			0606	33903	267		0013	208	00	00		739								
		023	,	51			0607				0013		0.0			739								
								3391	267		0013		00			741								
		0.23	3	S1 085			0609	3391 33911	267		0013	223	00	21		743								
		023	,	51			0624	3394	267		0013	600	0	, 1		745								
		0.23		089			0808	34363	267		0013	490	00	4+ I		751								
		023	,	51					267		0013		0.0	, ,		832								
				51			0830 0945	3440 3466	267		0012		00			841								
		023		085			0945	34760	268		0012	132	00	99		892								
		02.	,	S1			0941	3500	268		0010	207	0.1	20		905								
		023	1	089			0941		270) /	0010	207	01	28	14	899								
		023	,	S1			0891	35139 3514	270		0000		0.1	c 1	1.4									
				S1					272		0008		01			886								
		023		085			0843	3513	273	3.3	0007	853	01	71	14	872								
		023	,				075	35120					- 0			_								
		0.25	,	51			0754	3503	273		0007	362	02	09		845								
		023	,	085			0712	34975	274							832								
				51			0676	3498	274		0006		02			822								
		0 2 3		ST			0607	3497	275		0005	945	02	76		803								
		023	,	OBS			0558	34973	276							789								
		0.22		ST			0487	3494	276		0004	846	03	30		770								
		0 2 3	,	085 ST			0436	34912	277		0.20.		0.3			758								
				ST				3491	277		0004		0.3			759								
		023		085			0399	3492 34919	277		0004	220	04.	20	14									
		023		ST					277		0.007	1.1.	0.7			776								
							0384	3492	277		0004	_	04		147									
				ST			0383	3493	277		0004		05			793								
		0.73		51			0383	3494	277		0004	129	05	44	148									
		023		085			0382	34943	277						148									
				ST			0379	3494	277		0004		05		146									
				ST			0371	3494	277		0004		06		148									
		033		\$1			0365	3493	277		0004	239	06	69	148									
		023		085			0364	34931	277			26			148									
				51			0360	3493	278		0004		07		148									
		023		ST			0357	3494	278		0004	276	07	55	148									
		023		085	T148	4	0355	34938	278	U					148	396								

EFER RY IDE	ID. ND.	SHIP	LATITE	1/10		NGITUDE '1/10	DRUFT	MARS SOU/	ARE		ION TI		YEAR	CRUISE NO.		ATOR'S	N	DEPTH TO BOTTOM	DEPT OF S'MPL	H DB		VE ATIONS PER SE	WEA THER CDD	CODE	S	5	NODC TATION UMBER
3 1	223	IN	4432			840 W		149		01	29 0		965	LC2	 	4		320 ND.	10	24	2	1	×1	8 2			0035
									COLOR	TRANS Im1	Din.	SPEEO OR FORCE	M ETEI (mbs)	R	DRY ULB	WET	3	DBS. DEPTHS		ECIAL VATIONS							
											27	515	080	0	22	01	7 7	13									
		MESSENGI TIME HR 1/10	OF ND.		ARD YPE	DEPTH	(m)	Т	°c	s	٠/	SIGM	1-A		VOLU-X1	м Е 9 ⁷	≵ Δ D DYN. M. x 10 ³		DCITY	D ₂ ml/		04-P 9 - 01/I	TOTAL-P ug - a1/1	NO2-N	NO3-N µg - ot/l		
					TD	000			284	33		268		001	204	1	0000		601								
		0.7	1	OE		000			284		663	268			1.00				601								
		0.7	1		TD	001		0,2	264	33		268	5 /	001	190	6	0012	14	594								
		07	1	08	55 5TD	001		0.3	244	33	658	268	19	001	175	2	0024	14	587								
					GT5	002			224	33		269			129		0035		580								
		07	1	OE		003					727	20)		001	167	,	0055	1.4	200								
			•		T0	005		0	184	33		270)5	001	025	3	0057	14	567								
		0.7	1	OE		005	5			33	833																
		0.7	1	O E		007			142		936	271						14	554								
					OTO	007			151	33		272			881		0081		559								
			_		STD	010			213	34		272		000	806	ь	0102		593								
		0.7	1	OE		010			232		174	273				_			603								
		0.7	,		STO	012			293	34		273		000	715	8	0121		635								
		07	1	08	STD	014 015			339 349	34	456	274 274		000	4 (. 0	0	0138		659								
					STD	020			402	34		275			556		0168		665								
		07	1	OE		021			416		745	275		000	יסככי	0	0100		707								
		0 ,	1		STD	025			444	34		276		000	501	Λ	0194		726								
		0.7	1	OE		029			466		903	276		000		•	0 - 7 -		743								
			_		STD	030			463	34		276		000	467	9	0219		743								
				5	016	040	0	04	436	34	93	277	7.1	000	433	3	0464	14	749								
		07	1	OB	35	T044	7	04	427	34	939	277	73					14	753								
				5	0.16	050	0	04	425	34	93	277	73	000	430	5	0307	14	761								
					016	060	0	04	414	34	92	277	13	000	439	8	0350	14	772								
		0.7	1	O E		062			410		912	277							774								
					OTO	070			386	34		277			428		0394		777								
					OTE	080			356	34		277		000	410	4	0436		781								
		0.7	1	OE		080			355		887	277							781								
		0.7			STO	090			353	34		277		000	416	2	0477		796								
		0.7	1	OB	35	T099	U	0:	352	34	892	277	7					14	811								

REFERENCE CIEY ID. CODE NO. 31 223	SHIP CODE	LATITUDE 1/1 44357N	0 .	11/10 593W	14 14 14 14 14 14 14 14 14 14 14 14 14 1		MD 0	9 0	.1/10	YEAR 965	<u> </u>	1	TATIO	ON BER	0 2	EPTH TO TTOM 2 d 4	MAX. DEPTH OF S'MPL'S	22	WAVE SERVATIONS HGT PER 3	CDDS	CODES	ī		NDDC STATION NUMBER	
						COLOR	lm.}	D1R.	SPEED OR FORCE	(mbi	R 1	DRY BULB	BU	1.8	DE DE	DBS. EPTHS	SPEC OBSERV								
		,						27	S14	11	0 0)17	0 1	1 7		08									
	MESSENGE TIME HR 1/10	FC 431 C	ARD TYPE	DEPTH I	n)	2.1	s	٠/	SIGM	1 – A		AALY-XI		₹ Δ I DYN. x 10	M.	SDU SDU		O2 ml/l	PO4~P µg = 01/1	TOTAL-P pg = et/l	NO2-N yg - at/l	ND3-N 19 - 01/I	\$1 D4-		SCC
	09:	3 0	STD BS STD	0000)	0019 0019 0009	331 331 332	63	266 266 267	54		1410		000	-	144	+76					on the same of the		ĺ	
	09:	з о	STD BS	0020	1	0003 0001	3 3 3 3 3 3	4 77	26°	79 32	00	1267	8	002	7	144	+75 +75								
	09:	3 0	STD STD BS STD	0030 0050 0050	i i	0002 0006 0006 0007	334 334 334 334	7	268 268 268	39 39	00	1221	В	003	3	144	+83 +83								
	09:	3 0	BS STD	0075	1	0007 0011	334 335	88	269 269 269	90		1155		012		144	+88								
	09:		BS ST0 ST0	0100 0125 0150		0011 0016 0029	335 335 336	6	269 269 270	96		104		014		144 145 145	01								
	09:	3 0	BS STD BS	0151 0200 0201)	0030 0078 0079	336 338 338	5	270 271 271	l 6	000	918	8	022	5	145 145 145	645								
	09:	3 0	BS	T0232		0101	339	95	272	26						145	663								

REFERENCE CODE NO. CODE NO. SHIP CODE NO. 1 223 IN 4430	1/10	1/10 E 1	AARSDEN SOUARE 0° 1° 49 49 WA COLOR	MO O 1	29	HR.1/10 109 WIND SPEE	1965 BAR MET (mb	CRUISE NO. LC2	N	TATIOI UMBE	VIS.	OEPTH TO BOTTOM O 1 5 9 NO. OBS. DEPTHS	MAX, DEPTH OF S'MPL'S OO	OBSE DIR. 23	WAVE RVATIONS HGT PER SE.	WEA- THER CODE	CLOUD COOES		S1 N	NOOC IATION UMBER
MESSENGR CAST TIME OF NO. HR 1/10	CARO TYPE	DEPTN (m)	1 °C		./	SIG	MA-T		C VOLUA		₹ △ 0 0YN. M X 10 ³	301	UNO	O2 ml/l	PO4-P vg - 01/I	TOTAL-P ug - ot/l	NO ₂ -N µg - at/I	NO3-N vg = 01/l	\$1 O4-\$1	рН С
109	STD OBS STD STD OBS	0000 0000 0010 0020 0025	0074 0074 0065 0060 0059	33 33	114 3138 314 315	2 6 2 6 2 6	559 559 560 560	001	.4580 .4493 .4426	3 (0000 0015 0029	14 14 14	501 501 498 498		1 1					
109	ST0 STD OBS	0029 0030 0050 0050	0061 0068 0068	3 3 3 3	315 314 3135	26	660 659		.4414 .4566		0043 0072	14 14	500 506 506							

_	RENCE	SNIP	LATITU	ns	LONG	SITUOE	DRIFT	MARS	DEN	57.A	TION		ve	AR			ATOR'S		DEPTH	DEFIN	OR	WAV			EA-	CLO				NODC
CODE	10. NO.	CODE	•	1/10		1/10	NO N	10*		мо		HR.1/1		- n	CRUISE NO.		STATIO:		BOTTON	S'MPL'S		HGT P			DE	TYPE				UMBER
31	223	1N	4440	5N	049	21 W		149	49	01	29	123	19	65	LC2	00	7		0055	00	22	2	Τ	×	1	8	2			0038
		, ,						[WAT	ER		WINO	İ	BARC			MP. ℃	VIS	NO.	CPE	CIAL									
									COLOR	TRAN (m)	2 018	L SPE	ED R	METE (mbs	R	DRY BULB	WET	COD	OBS. DEPTHS	O D C C D L										
											26	_	_	13	0 0	28	02.	2 7	03											
		1199.5	약 NO.	C AR TYP	E 3	ДЕРТН	(m)	Т	℃	,	٠/	SI	GMA-	-ī	SPECIFIC	C VOLU	IME 10?	₹ Δ C DYN. A x 10 ³	A, SO	OCITY	O ₂ ml/l		4-P	10TA		NO ₂ -		NO3-N 1/10 - gu	SI O4-Si µg = al/1	
		HR 1/10 NO.			rD S	000			065 065		14		659 659		001	.451	6	0000		497										1
		5			0 TD	001	0	0.0	065 064 063	33	13	2	658 658 657	3		460		0019	14	498 499 500										
		12	_	5	5 TD TD	003	O	0	062 058	3.3	111	2	658	3		469		0044	14	500										
		12	3	OB:	S	005	0	01	058	33	124	+ 2	659	7					14	502										

Table II. Observed and interpolated oceanographic data taken by USCGC DUANE on North Atlantic Standard Monitoring Section 3, 14-15 February 1966; prepared from NODC listing No. 31-792.

REFER CTRY COOE	ID. ND.	SHIP	LATITU	DE 1/10	LONGITUDE	DRIFT	MARS SOU	ARE		TION T (GMT)	IME IR.1/10	YEAR	CRU		ATOR'S	1	DEPTH TO BOTTON	DEFIN		WAVE SERVATI	DNS	WEA- THER CODE	co	DUD		S1	HODC FATION UMBER
31	792	00	4440	6N	049185W		149	49	02	14	010	1966	,	02	6		0064	00	33		5	X1	6	2			0001
							[WAT	ER	1	WINO	BAI	20-	AIR TE	MP. °C		ND.	505	CIAL]							
								COLOR CDDE	TRANS	DIR,	SPEEC OR FORC	O WE.	FER	DRY BULB	WET	COO	DEPTHS	O B C C AL									
										32	\$35	5 21	15	007	006	7	04										
		MESSENGR CAST		CAR		(m)	τ	°C	5	٠4.	SIG	MA-T		OMALY-X		₹ △ D YN. M X 10 ³	١, ا ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ،	OCITY	D ₂ ml/	PO4		TOTAL-P µg - 01/1			NO3~N µg - al/l	SI D4-Si µg - at/I	
		HR 1/10		S7 08:	TD 000			122 122		54 540		588 588	01	01180	1 (0000		528 528			T						
				S :	001 001	0	0	127 127	33 33	54 544	26	88		01180		0012	14	532									
		0 1	0	089	r0 002 5 002 rD 003	4	0	128 129 135	33	54 543 58	26	588 588 590		01182		0024	14	534 535 539									
		0 1	0	08				172		844		709	01	,,,,		, 0 5 5		563									

0000	arvice.											_							T 44.49	1				_			
CTRY	ID,	CODE	LATITU		LONGITUDE '1/10	DRIFT	SQUA	RE		(GM			YEAR	CRUIS NO.	E !	STATION NUMBE	4	DEPTH TO BOTTOM	DEPTH	DBS	WAVE ERVATIONS	WEA- THER CODE	CODES		51	NODC TATION UMBER	
	-	1		1/10		$\overline{}$	10*		_		HR,1/	_		 	_		_		13 MILL		HGT PER SE	·^	TYPE AM				
31	792	DU	4436	(N)	049057W		149			14	035		966	1	02			0091	01	32		5 X1	612	1		0002	
							L	W A		ļ.,	WINE		BAR	o- L	AIR TE	MP, °C	vis.	NO.	5.01	CIAL							
							C	COLOR CODE	TRANS Lm)	DIF	R.	EEO OR ORÇÉ	(mb		DRY BULB	W ET BULB	COD	OBS.	O OFFERS	ATIONS							
							[32	2 S	17	21	5 (11	000	7	05									
		MESSENGE TIME HR 1/10	WD.	CARI		lm)	т	°C	s	٠/		SIG M.	A -T		C VOLU	107	₹ △ D DYN. W X 10 ³		UND OCITY	D2 ml/(PO ₄ =P μg = α1/1	TOTAL=#		NO3-N vg - ot/1	\$1 O4-\$1 pg - q1/1	pΝ	S C C
																											T
				ST				.16	33			268		00	211	4 (0000	14	525								
		03	5	085				.16		494		268							525								
		0.0		ST				.18	33			268		00	202	8 (0012		527								
		035	>	085				18		50		268							527								
		0.21	-	ST				19	33			268		00	1204	1 (0024		529								
		03!	>	OBS ST				.19		506		268		0.0					530								
		039	5	085				.20	33	54a		268		00.	1202	0 (0036		532								
		0 5		ST				27		55		268 268		00	178	0 (0010		538								
		039	5	085				38		63:		269 269		00.	11/8	9 (0060		538 548								

					1		т.				ORIGINA	2005			MAX.	T	WAVE			CLOUD				
REFERE		SHIP	LATITU	DE	LONGITUDE	SOU	ARE		N TIME MT!	YEAR		IATION	-4-	TO	DEPTH	085	ERVATI		WEA-	CODES	1	51	NODC TATION	
CODE	NO.	CODE		1/10	· '1/10 P 至	10°	770	MO DA	Y HR.1.	/10		UMBER	9	MOTTO	S'MPL'S	DIR	HGT PE	t SE/	CODE	TYPE AM		N	UMBER	
31	792	DU	4432	2N	048488W	149	48	02 14	4 09	7 1966	028	3	1	536	06	29		4	. X1	6 1			0003	
1 2 1 1	, , _	1 00 1	4426			1	WAT		WIN	n	A IR TEA		1	NO.			' '	,	. 1	, , ,			00031	
							COLOR	TRANS.	DIR. S	PEED METE	R DRY	WET	VIS.	OBS.	ORSERV									
							CODE	(m l		ORCE (mbs) BULB	BULB		DEPTHS										
									29 S	14 21	7 011	000	8	11										
		MESSENGR	CAST	CAR					<u>. T</u>		SPECIFIC VOLUA	46 E	Δο	sou	מאו		PO	_P	TOTAL-P	NO2+N	NO3-N	SI O4→Si		s
		TIME	T NO.	TYP		1	°C	ς .	··	SIGMA-T	ANOMALY-119	7 UTF	N. M.	VELO		O2 m1/1	pg =		yg = a1/1	μg = at/l	μg - σI/I	μg = αt/l	pН	CC
		HR 1/10				+			-			- 					+							+
		1		١.	0000	1	134	335	, 1	2687	0011861	, 1	000	1,00	533		-	- 1		1			1	11
		097	,	51 089			134	335		2687	001100	. 00	,00		533									
		097		083			135	335		2688					535									
		091		51			142	335		2688	001177	7 00	12		539									
		097	7	OBS			170	336		2693	001111	, 00	, 1 2		554									
		0,,		51			187	337		2696	0011023	3 00	23		562									
				51			260	339		2711	0009615		34		600									
		097	7	OBS		0	301	341	07	2719				14	620									
				51	0050	0	357	343	0	2729	0007913	3 00	51	14	649									
		097	7	OBS	0055	0	368	343	38	2731				14	655									
		097	7	OBS	0072	0	360	343	51	2733					655									
				51	rD 0075	0	361	343	7	2735	0007445	5 00	70	14	656									
				Si			365	344		2742	000676	7 00	88		663									
		097	7	083			365	344		2742					663									
				51			364	345		2746	0006383	_	104		667									
				51			362	345		2750	0006089	9 01	120		671									
		097	7	OB:			362	345		2750					672									
					D 0200		401	346		2755	000562		149		698									
				5			431	347		2759	000531		177		720									
		0.0-		S.			450	348		2762	0005130	0 0 2	203		737									
		097		OBS			452 443	348		2762 2764	0005000	0.3	254		739									
		097	7	0B:		-	443	348 348		2766	0005008	5 02	- 54		750 758									
		091		S			429	348		2766	000491	6 03	303		761									
		097	7	OB:			411	348		2768	000771	0 0 2	00		770									
				000	0570	·		,,,	. ,	2,00				. 7	, , ,									

RE	FEREI		SHIP				FE MA	RSDEN	ITATZ	ON TI				ORIGIN	ATOR'S		DEPTH	MAX.		WA		WEA-	Cronp			NODC	
CO	7	IO. NO.	CODE	LATITU	- 1	LONGITUDE	0 Z	UARE		GMTI		YE AR	CRUISE		TATION		BOTTOM	OF			ATIONS	THER	CODES			STATION	
_	-				1/10	1710	10	_	WO D	- +	_		NO.		UMBER		0011011	S'MPL"	DIR.	HGT	PER SE	4000	TYPE AM	T .	-	140/0/064	
3	1	792	00	4429	4N	048357W	14	9 48	02 1	4 1	32 1	966		02	9		2651	09	34		4	X1	66			0004	
								WA	ATER	W	UND	BARO		AIR TE	MP. °C		NO.		CIAL	}							
								COLO	TRANS.	DIR.	SPEEO OR FORCE	(mbs)	R	DRY IULS	WET	CODI	OBS. DEPTHS		ATIONS								
										28	514	235	5 0	33	022	7	11										
			MESSENG TIME HR 1/10	or NO.	CAR TYP		(m)	т °с	s	٠/	SIGN	A-T		VALY-XI	ME 0	△ D YN, M x 10 ³	. SOC	DCITY	O ₂ ml/l		O4-P 3 - at/l	TOTAL-P pg - at/l	NO2-N ug - at/l	NO3-N ug - 01/1	SI O4- 49 - 01		C
																				Т							Π
		,	'		51			0468	343	1	27]	19 '	000	887	0 0	000	14	688		'	'		'				
			13	2	085			0468	343		271						14	688									
					51			0468	343		27]		000	888	0 0	009	14	689									
			13	2	OBS			0468	343		271							689									
				_	51			0466	343		271		000	887	2 0	018		690									
			13	2	083			0465	343		271					_		691									
					\$1			0451	343		272			875		027		686									
			1.2	2	5			0380	343		272		000	805	7 0	043		659									
			13	2	0B3			0375	343		277			7				657									
			13	2	085			0338	343		27:		000	768	6 0	063		648									
			1.0	2	51			0433	345		273		000			001		646									
			13	2	0B3			0450	345		274		000	1690	9 0	081		693 701									
				_	51			0477	346		274		000	658	<i>(</i> , 0	098		717									
					51			0500	347		274			1627		114		731									
			13	2	OBS			0505	347		275		000	1021	1 0	7 1 4		735									
					SI			0509	348		275		000	560	9 0	144		745									
			13	2	OBS			0509	348		275		000	,,,,	, ,			745									
					S1			0499	348		275		000	533	2 0	171		749									
					51	rD 030	0	0488	348	9	276			511		197		753									
					S1	TD 040	0	0467	349	2	276			476		247		761									
			13	2	OBS	T042	5	0462	349	24	276	8						763									
					\$1	050	0	0443	349	2	277	70	000	459	2 0	294		768									
					51	rD 060	0	0423	349	2	277	72	000	446	4 0	339	14	776									
			13	2	CBS	064	1	0416	349	18	277	73					14	780									
					S 1	rD 070	0	04)8	349	2	277	73	000	441	2 0	383		786									
					ST	080 O	0	0400	349	1	277	74	000	443	6 0	427	14	800									
			13	2	085	T 1085	8	0398	349	13	277	74						808									

ER	ENCE	SHIP			-	E M	ARSDEN		ION TIM			ORIGIN			DEPTH	MAX. DEPTH		WAVE SERVATI	ONS	WEA	CLOU			NODC	
F	ID.	COOE	LATITU		NGITUDE		OUARE	MO TO	GMTI	YEAR	CRUI		TATIO		TO BOTTOM	OF	"	HGT PE		CODE				STATION NUMBER	
,		DIII		1/10		_					_	-		-		3 1917 E	1	AGI PE	+		+				
11	792	ם	4426	5N U2	8170w	14	49 48 WAI		4 1 !	59 1966		AIR TE			329Z	13	34	1	4	X1	6	7	ı	0005	
							COLOR	TRANS.		SPEED MET	T ER	ORY	WET		200	OBSERV	CIAL /ATIONS								
							CODE	(m)	26	FORCE (m)	\rightarrow	BULB 067	BULE	<u> </u>		-									
					,			ĻШ	24	520 21	15	067	044		12	<u> </u>		Ļ						1	
		MESSENGR TIME HR 1/10	CAST NO.	CARD	DEPTH (m)		т °С	S	*/4.	T-AMDI2		IFIC VOLU		₹ Δ 0 0YN. M. x 10 ³		OCITY	02 ml/	PO 4		TOTAL-P 1/10 - Qu	NO3-1				
				STD	, 0000		0453																		
		159		OBS	0000		0453	347		27520															
		159	1	OBS	0009		0435	343		2724	0.0		7			676									
				STD	0010		0434	343		2724		0840				676									
		159	,	STD QBS	0020		0427	343		2725 2726	00	0832)			674									
		109	'		0025		0422	343			0.0	0010	,												
				STD	0050		0391	343		2727 2728		0818 0803				670									
		159	,	OBS	0050		0391	343		2728	00	10003	ſ			664									
		125	'	SID	0075		0405	344		2740	0.0	0697	7			676									
		159)	085	0076		0406	344		2740	•					677									
				STD	0100		0386	345		2746	0.0	0638	6			673									
		159	,	QBS	0100		0386	345		2746						673									
				STD	0125		0375	345	57	2749	0.0	0611	5		14	673									
		159)	085	0148		0364	346	512	2754					14	673									
				STD	0150		0367	346	5.2	2754	0.0	0568	6		14	674									
		159)	QBS	0197		0426	347	762	2759					14	709									
				STD	0200		0426	347	76	2759	0.0	0525	8		14	709									
				STD	0250		0425	347	79	2762	0.0	0507	3		14	717									
				STD	0300		0423	348	3 3	2764	0.0	0487	0			725									
		159	7	085	T0395		0417	348		2770						739									
				STD	0400		0416	348		2770		00446	-			740									
				STD	0500		0399	348		2772		00434				749									
				STD	0600		0386	348		2773	0.0	00426	8			760									
		159	7	OBS	10650		0380	348		2774			2			766									
				STD	0700		0377	348		2775		0424				773									
				STD	0800		0372	348		2775 2776		0426				788									
				STD	1000		0363	349		2776)0428)0432				817									
		159	,	OBS	T1044		0361	348		2776	U	10432	V			824									
		155		STD	1100		0359	349		2777	0.0	0431	0			832									
				STO	1200		0355	349		2778		0428				847									
		159		085	1251		0353	349		2779	00	0420	9			855									
		105	,	005	1771		0333	247	775	2119					1.4	077									

ID.	SHIP	LATITU	DE	LONGI		MAR SOL	SDEN	(ION TIA		YEAR	CRUISE		ATION	DEPTH TO BOTTO	OF	H OBS	WAVE SERVATIONS	- 000	CODES		51	NODC ATION UMBER	
NO,	-		1/10		17.10	10	1	-	JAY HR			NO.		UMBER	-	3 MFL		HGT PER S	-	TIPE AM	T			
792	00	4424	8N	0475	55W	149					966		032		3840	14	32		4 X2	5 8	1	1	0006	
							COLOR			SPEED	BAR	J	ORY TEM	WET CO	NO.		ECIAL							
							CODE	Imi	DIR	OR FORCE	(mbs		ULB	BULB	DEPTH	Z CR2EX	ZNOITAV							
									17	518	15	9 0	78	056 7	13									
	MESSENGR	CAST	CARC		DESTAL I		1°C	Ι.	٠/	515.4		SPECIFIC	VOLUN	E E A	SC	DUNG	O2 ml/l	PO4-P	TOTAL-I	NO2-N	NO3-N	SI O4-Si		5
	TIME NR 1/10	T NO.	TYPE		DEPTH (m)			,	***	SIGN	14-1	ANOM	ALY-X10	x 10	N. VE	LOCITY	O 2 mi2 i	μg = ot/(µ0 - a1/1		yg - 01/1	yg - 01/l	pΗ	c
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	'	' '	ST		0000		558	34		270		001	0053	000		4724	'	'			'			
	209	5	085		0000		1558		289	270						+724								
	201	-	ST		0010		521	34:		27		000	9577	001		4711								
	209	כ	085 ST		0011)517)464	34:	299	27:		000	8803	001		4710 4690								
	209	5	085		0029		1423		334	272		000	0003	, 001		+674								
			ST		0030		1420	34:		272		000	8254	002		+673								
			ST		0050		380	34:		27:			7884			659								
	20	5	OBS		0057	C	372	34	333	273	3 1				14	4657								
			ST		0075		375	34:		273		000	7649	006		4662								
	209	5	085		0086		376	34		271	-					+664								
	209	E.	S1 085		0100		365 361	343	373	27:		000	7473	008		+662								
	20:	,	ST		0125		1367	344		27:		000	7168	010		+663								
			ST		0150		387	345		27			6486			4682								
	205	5	OBS		0174		415		639	275						1699								
			ST	D	0200	0	1467	34	75	275	54	000	5808	014	8 14	+726								
	209	5	085		0230		514		357	27						4752								
			ST		0250		1504	348		275			5465			4751								
			ST		0300		479	348		270			5085			4749								
	205	=	ST 085		0400)438)417	349	905	276		000	4579	025		4749 4751								
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			ST		0600		394	349		27			4231		-	4764								
			ST		0700		382	340		27			4173			4775								
	20	5	085	,	0750	0	378	349	910	27	76				14	4782								
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	201	-	ST		0900		1373	349		271		000	4166	046		805								
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			51		1100		365	349		271			4236			4820 4835								
			ST		1200		1359	349		27			4424			4849								
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			ST	D	1300	C	352	349	90	271	78	000	4398	063		863								
			ST		1400		344	349	_	27		000	4304	068		876								
	205	5	085		1435	C	341	349	921	278	30				14	881								

EFER	ENCE	SHIP	LATITUO		LONGITUOE	DAUFT	MARSOEN	STATIO	ON TIA	AE YEA			ATOR'S		DEPTH	MAX,		WAVE	ONE	WEA-	CLO				NODC
DE	NO.	COOE		/10	1/10	ON -	10° 1°	MO O			L K		STATION NUMBER		TO 8OTTON	10	1 0	HGT PE		THER	TYPE	- 1			TATION
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							COOE	fw.1		FORCE	(mbs)	BULB	BULB	-	DEFINS										
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		HR 1/10	++											X 10 ³	VEU	OCITY		pg =-	11/1	/g - 01/I	ng - a	1/1	νg - at/1	yg - ol/l	
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		23	1	STE OBS	0000		0589	342		2700	0	01062	7 0	000		737									
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		23	1	085	001		0586	342		2701	U	01060	0 0	011		737									
				STO			0587	342		2701	0	01062	2 0	021		737									
		23	1	OBS	0029		0588	342		2701	0	01002	2 0	021		741									
				STD	0030	3	0588	342		2701	0	01064	7 0	032		741									
				STE	0050)	0587	342	6	2701		01067		053		744									
		23	1	OBS	005	7	0587	342	60	2701						745									
				STD	0075	5	0588	342	7	2701	0	01066	1 0	080		749									
		23	1	085	0085		0590	342		2701					14	751									
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		23	L (085	0112		0602	345		2718					14	763									
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		23		STD			0546	347		2744	0	00673	0 0	146		750									
		23.	'	OBS STD	0169		0525	348		2752						746									
		23		085	T0231		0506 0489	348		2755	0	00565	2 0	177		743									
		20.		STD			0479	348		2759	0	00517	7 0	201		742									
				510			0456	348		2764		00517		204 230		741									
				STO			0418	348		2770	_	00443	-	276		740 741									
		231		085	T0443		0406	348		2772	J	00773	1 0	210		743									
				STD			0403	349		2773	0	00421	4 0	320		751									
				STD	0600)	0397	349		2776		00409		361		765									
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		231	. (085	0728		0386	349	31	2777						782									
				STD			0378	349		2777	0	00413	6 0	443	14	790									
		231	. (OBS	T0865		0371	3490		2776					14	798									
				STD			0369	349		2777		00418		485	14	803									
				STD			0361	3492		2778		00411		526	14	817									
		231	,	STD			0354	3497		2779	0	00411	6 0	568		831									
		231		OBS	T1104		0354	3497		2779						831									
		231	,	STD DBS			0349	349:		2780	0	00406	0 0	608		845									
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No. No.		SNIP	1 4 7 7 7 1 1 1 1		- E	MARSOEN	STATION 1				TOR'S				WAVE						NODC	
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WAIST WAIST WATER WATE	31	792 DU						_				4023	1		NG! PE	1		 				
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ST							43	1330	024 1	1 /								,				
STO 0000 0706 3399 2664 0014091 0000 14780 14780				CARD	GEPTH (m)	τ °c	s °/	SIGMA-	T SPECIFIC	VOLUM		SOL		02 ml/l							рН	Š
059		HR 3/10	1				-	-			x 10 ³	VELC	30117		hů.	a1/t	µg • et/	ng - 01/1	yg - a1/1	yg = a1/1		С
059			1 1	CTD	0000	0706	3300	1	1		1							ļ			1	11
059		0.5	Q						001	4091	0000											
STD O010 O699 3412 2675 O013068 O014 14780																						
059				STO	0010				001	3068	0014											
STO 0030 0709 3422 2681 0012485 0039 14769 STO 0050 0711 34283 2686									001	2859	0027											
059		0.5	9																			
STO 0050 0711 3428 2686 0012075 0064 14794 STO 0075 0715 3429 2686 0012147 0094 14799 059 085 0077 0715 34285 2686 0012147 0094 14799 059 085 0081 0716 34399 2694 14802 STO 0100 0723 3467 2715 0009431 0121 14811 059 085 0121 0730 34848 2728 14820 STO 0125 0719 3465 2729 0008098 0143 14816 STO 0150 0654 3485 2738 0007277 0162 14795 059 085 0164 0622 34846 2742 14785 STO 0200 0595 3487 2748 0006425 0196 14780 STO 0300 0553 3490 2754 0005860 0427 14775 STO 0300 0535 3493 2760 0005373 0455 14773 059 085 10352 0512 34960 2765 14779 STO 0500 0493 3502 2772 0004439 0352 14790 059 085 10567 0480 35031 2774 0006425 01479 STO 0500 0466 3503 2776 0004439 0352 14796 STO 0700 0431 3503 2780 0003843 0435 14798 STO 0800 0409 3503 2782 0003843 0435 14798 STO 0800 0409 3503 2780 0003843 0435 14798 STO 0800 0409 3501 2781 0003930 0511 14821 O59 085 1054 0411 34990 2779 0004447 0597 14885 STO 080 0411 34990 2779 0004447 0593 14855 STO 1200 0411 3499 2779 0004447 0593 14855 STO 1200 0411 3499 2779 0004447 0593 14855 STO 1200 0410 3499 2779 0004447 0593 1485		0.5	0						001	2485	0039											
STD 0075 0715 3429 2686 0012147 0094 14799		0,7	,						001	2075	0064											
059																						
STD O100 O723 3467 Z715 O009431 O121 14811		0.5	9	OBS	0077	0715	34285	2686														
OFF OFF		0.5	9																			
STD 0125 0719 3485 2729 0008098 0143 14816 STD 0150 0654 3485 2738 0007277 0162 14795 0196 0		0.5							000	9431	0121											
STD 0150 0654 3485 2738 0007277 0162 14795		0.5	7						000	2000	0143											
059																						
STD 0200 0595 3487 2748 0006425 0196 14780 STD 0250 0562 3490 2754 0005860 0227 14775 STD 0300 0535 3493 2760 0005373 0255 14773 059 0BS T0352 0512 34960 2765 14772 STD 0400 0508 3498 2767 0004799 0306 14779 STD 0500 0493 3502 2772 0004439 0352 14779 STD 0600 0466 3503 2776 0004154 0395 14795 STD 0700 0431 3503 2780 0003843 0435 14798 STD 0800 0409 3503 2782 0003682 0473 14805 STD 0800 0409 3501 2781 0003930 0511 14821 STD 1000 0440 35		0.5	9						000	, , ,	0.02											
STD 0300 0535 3493 2760 0005373 0255 14773 14772 14772 14772 14772 14772 14772 14772 14772 14772 14772 14772 14772 14772 14770 1				STD	0200	0595	3487	2748	000	6425	0196											
059						-			000	5860	0227	14	775									
STD 0400 0508 3498 2767 0004799 0306 14779 STD 0500 0493 3502 2772 0004439 0352 14790 059 0BS 10567 0480 35031 2774 14796 STD 0600 0466 3503 2776 0004154 0395 14795 STD 0700 0431 3503 2780 0003843 0435 14798 STD 0800 0409 3503 2782 0003682 0473 14805 059 0BS 0804 0408 35029 2782 14805 STD 0900 0409 3501 2781 0003930 0511 14821 STD 1000 0410 3500 2780 0004114 0551 14838 059 0BS 1054 0411 34990 2779 14888 STD 1100 0411 34990 2779 14888 STD 1200 0410 3498 2778 0004447 0b37 14871		0.5	_						000	5373	0455											
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STO 1000 0410 3500 2780 0004114 0551 14838 059 085 1054 0411 34990 2779 14848 STO 1100 0411 3499 2779 0004291 0593 14855 STO 1200 0410 3498 2778 0004447 0637 14871		0.59	9 (-									
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-,004		059	9 (OBS	1269	0408		2778			0-01											

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ERE	NCE	SHIP	707111		ONGITUDE	CTR	MARSOEN	STAT	ION TH	ME			ATOR'S		OEPTH TO	OEPT		WA	VE A TIONS	WE.					NOOC	
E	10. NO.	CODE	LATITU		ONGITUOE				DAY HE		CRI		TATION		BOTTOM	OF S"MPL			PER 5	- 000					NUMBER	
,	_	0	1212	1/10		_					+-			-	. 1 0 11	_		701		$\overline{}$	-	\neg				
1	792	00	4348	IN O	45405W	ΙŢ				00 1966	٠	03			4108	10	26	,		5 X4	5	8		- 1	0010	
							WAT		- W	SPEED BAR		AIR TE		VIS.	NO. 085.		ECIAL									
							COLOR	TRANS.	OIR.	OR (mb		BULB	BULB	CODE	DEPTHS	OBSER	ZHOITAV									
									27	535 03	_	072	061	6	12											
	1		1		1	T		1			Τ			Ε Δ 0				Τ.				т	. 1			٦,
		MESSENGR TIME	LCAST	TYPE	DEPTH (m)	1	t ,c	5	٠/	SIGMA-T		CIFIC VDLU		X 103		ONU	02 ml/l		O4-P g = e1/1	101AL-			NO3-H NO3-H	\$1 O4 (a - 84		000
	- }	HR 1/10	1			-					╀		-	X 10°				-					79 - 50,1		1	1
			1					١			Ι.															11
				STD	0000		0672	34		2682	0	01242	0 0	000		768										
		100		OBS	0000		0672	34		2682						768										
		100)	OBS	0009		0681	34		2679	_		_			773										
				STD	0010		0682	34		2680		01261		013		774										
				STD	0020		0687	34		2682	0	01239	8 (0 2 5		778										
		100)	085	0021		0687		195	2682						778										
		100		STD	0030		0692	34		2682	0	01241	0 0	037		782										
		100)	OBS	0041		0696		206	2682	_					785										
		100		STD	0050		0699	34		2685	Ų	01216	0 (062		788										
		100	,	085	0062		0700	34:		2690		01711				792										
				STD	0075		0700 0679	343		2693	_	01146)092)119		794										
		1.00		0BS			0642			2700	U	01078	2 (1119		791										
		100	,		0121		0628	-	448	2708	_	00001				780										
				STD	0150		0549	344		2710 2722		00986		145		775										
		100	,	085	0161		0520		→ r 487	2727	V	00878	2 4	168		748										
		100	,	STD	0200		0512			2737	_	00743		209		738										
				STD	0250		0505	346		2747	-	00652		1209 1244		743 750										
				STD	0300		0502	341		2756		00572		275		758										
		100	`	085	10324		0501		B73	2759	U	00572) (1215		762										
		1.70		510	0400		0516	34		2767	0	00482	1 (327		782										
		100)	085	0490		0517)59	2772		00 102		1361		799										
				STD	0500		0514	35		2773	0	00442	1 (373		799										
				STO	0600		0484	350		2774		00433)417		803										
		100)	085	T0664		0467	350		2775			-	- '		806										
				STD	0700		0460	350		2775	0	00434	0 0	1461		809										
				STD	0800		0437	34		2776		00431	-	504		816										
		100)	085	T0864		0422		976	2777	,	00.731		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		820										
				STD	0900		0413			2.11					• •	020										
				STD	1000		0386																			
		100)	035	1028		0378	34	74P	2762P																

TABLE III. Observed and interpolated oceanographic data taken by USCGC HUMBOLDT on North Atlantic Standard Monitoring Sections 2 and 3, 9–12 March 1966; prepared from NODC listing No. 31–702.

TRY IO.	SHIP	LATITUO	DE 1/10	ONGITUOE '1/10	DRIFT	MARSD SOUAL	RE		MTI		EAR		TATION		OEPTH TO ROTTOM	MAX. OEPTH OF S'MPL"	OBS	WAVE ERVATIONS HGT PER SE	WEA- THER COOE	CLOUD COOES	j	51	ATION UMBER	
1 70	2 HU	4440	N O	4918 W		149	49 (0 80	9 0	92 1	966	02	5	(057	01	05	3 4	Х6	5 8			0001	1
							WAT	ER	W	INO	BARC	AIR TE	νP. ℃	T	NO.		CIAL		· ·			,		ı
						C	OLOR	TRANS.	OIR.	SPEED OR FORCE	METE	R ORY	WET	COOE	OBS. OEPTHS	OBSERV								
									33	515	25	4 017		6	04									
	MESSENG TIME HR 1/10	OF NO.	CARO TYPE	OEPTH	(m)	т	°C	5 .	/	SIGMA	_т	SPECIFIC VOLU	7 (Δ0 YN. M. x 10 ³		DCITY	02 ml/l	PO4-P µg = a1/1	TOTAL-P ug - at/l	HO2-N ug - 01/1	NO3-N 1/10 - 6K	\$1 O4-5; yg ~ a1/1	рН	
					_																			
			STD			01		335		269		001158	8 (000		521								
	09	2	OBS	000		01		335		269						521								
		_	STD				03	335		269		001154	2 (012		521								
	09	2	0B5	001			03	335		269	_		_			521								
		_	STO				02	335		269		001153	0 (023		523								
	09	2	OB5	002			02	335		269						524								
			STO			01		335		269		001147		035		524								
		_	STD			01		335		269		001145	0 0	058		527								
	09	2	OB5	005	4	01	00	335	69	269	2				14	527								

REFERENCE	SHIP I LATITUDE LIGHTINGS					M ARSO		STA	TION T	TIME	YEAR		UGINAT		T	GEPTH TO	MAX, OEPTH	ORS	WAVE	WEA- THER	CLO				HOOC
CODE NO.	NO. COOE . 1/10			1/10	N N	10°				HR.1/10	16711	CRUISE NO.		TION	1	MOTTOM	S'MPL'S		HGT PER	COOL	TYPE				UMBER
31 70	2 HU	4436	N O	4904 W	1	49	49	03	09	112	1966		027		0	0062	00	18	2 3	X6	5	8			0002
							WA	TER	Ι,	ONIW	BARG	O= Al	R TEMP.	°C		NO.	SPEC	161							
						9	COOE	TRANS	ØIR.	OR FORCE	101611			VET CO	AS.	OBS, OEPTHS	OBSERV								
									36	514		4 02	2	. 7	7	04									
			CARO TYPE	DEPTH	(m l	1	*c	5	٠/٠٠	SIG	MA-T	SPECIFIC		₹ △ 0YN, x 1	Μ,	SOU		O2 m1/1	PO 4-	ΓΟΤΑ L P μg α1/1	NO ₂ -		NO3-N yg - a1/1	SI O451 µg - a1/1	рН
	stD '			000	0	01	149	•								,									
	11	2	0B5	000	0	01	49																		
			STD	001	0	01	47																		
	112 OBS 0010 STD 0020 112 OBS 0029 STD 0030		0	0 1	47																				
			0	01	40																				
			OBS	002	5	01	37	33	782	27	06					145	542								
			STD	003	0	01	35	33	79	27	07	0009	996			149	542								
			STD	005	0	01	135	33	82	27	10	0009	772			149	546								
	STD 0050				0	01	135	33	819	27	10					149	546								

REFERENCE SHIP LATITUDE LONGIT CODE NO. CODE 1/10	1/10 Z 10. 3.	BAR	O27-A O- AIR TEMP. 'C VIS. ER DRY WET CODE	0192 02 18 2	VE ATIONS THER CODES FER SEA CODE TYPE AM Z X6 5 8	STATION
MESSENGR CAST CARD TIME OF NO. TYPE	DEPTH (m) T °C	01 S17 26	4 022 6 SPECIFIC VOLUME SAD DOYN, M x 10 ³		704-P TOTAL-P NO2~N g = a1/l	NO3-N S104-Si pH S C C
STD 127 OBS 127 OBS STD	0000 3373 0000 33732 0009 33771 0010 3378					
STD 127 OBS STD	0020 3383 0024 33847 0030 3389					
127 OBS STD 127 OBS	0048 33971 0050 3397 0072 34002					
STD 127 08S STD STD	0075 3401 0096 34085 0100 3409 0125 3414	5				
127 OBS STD 127 OBS	0145 34179 0150 3421 0154 34243					

											,						-								
REFERENCE	SHIP	LATITUDE	LONGITUDE	DRIFT	MARSO		STATIO	N TIA	WE	YEAR		RIGINA			DEPTH	[OEPII		W A V E		WI		CLOUD			NODC
CODE NO.	CODE	1/10	* '1/1		10°				R_1/10	I LONG	CRUISE NO.		LMBER		80110	M S'MPL		HGT PE				TYPE AM	-		UMBER
31 702	HU	44330N	048500V	+		_	03 09	_		1966		028			0768	$\overline{}$					_	5 8			2221
, ,	1		,	. 1	1	WAT			IND		1 A	IR TEM		\neg	1	1-	1	וויוו	1 .	2 X	0 1	פוכ ו	1	,	00041
					Ī	OLOR	TRANS.	DIR.	SPEED	- BARG)•)RY	WET	VIS.	F 002"	OBSER	ECIAL VATIONS								
						CODE	lm)	UIK.	FORCE	(mbs	1 81	JEB	BULB		DEPTH	5 0002									
					1		- 10	02	517	26	1 0.	28			05										
	MESSENGR TIME HR 1/10	9 NO. 11	ARO DEPTH	(m)	Т	°C	s •	/··	SIGA	A-T	SPECIFIC	VOLUM	AE C	ξ Δ 0 YN, M X 10 ³	, SC	LOCITY	O2 m1/	PO.		TOTAL pg - gu		NO2-N pg - 01/1	NO3-N ug - a1/1	SI O4-Si	
	HK 1/10		_		+				+						-			+			+				
	l	1 1	TD 000	0.0	0.1	07	3351	8	26	ا رو	0.0.1	1428	. !	0000	1 14	+522		1			I			ı	1
	143					07	335		26		001	1720	, (,000		+522									
			TD OC	0	01	20	3366		26		001	0877	7 (011		+530									
		5	TD OO	20	01	32	337	4	27			0347		0022		+539									
		S	TD 001	30	01	44	338	1	27	08		9896		032		4546									
		5	STD 00:	50	01	67	339	5	27	18	000	8996	, (051	14	4562									
			5TD 00			.95	341		27.	29	000	7995	5 (072	1.4	581									
	14:					212	3421		27						1 4	4592									
			O10			23	342		27			7313		1091		4599									
			O1.			51	343		27			6674		109		4616									
			O1:			76	344		27			6422		126		+632									
			STD 020			319	345		27			5867		156		+661									
	14		O2 1			351	346		27		000	53B8	3 (184		4684									
	14.		3S T02			364	346		27							+695									
			STD 040			365	346		27			5270		211		+699									
	14:					369	346		27		000	5395) (1264		4717									
	14.		3S T046		03	173	347		27		000	E 2 7 C		210		+728									
			STD 050			82					000			318		+736									
	143					90	347		270		000	5489	, (373		+756 +773									

_							, ,												1					_		,		
£8	ENCE	SHIP	LATITU	ns.	101	GITUGE	CTR	MARS			TION TH		(EAR		ORIGIN.			OEPTH	DEPTH		WAVE SERVATH	ANS.	WEA-		DUD			NODC
Ē	NO.	COOE	+	1/10	LON	1/10	DRIFT	10*			DAY HE		IEAK	CRUIS		TATION		SOTTO8	0.6	1 0	HGT PE		THER					TATION
,	702	HU	4430		04			149	1 1				0//	-	+			3570	1-		noi rei	+		1				
T	102	ן איי ן	4430	N	04	834 W	1 1	149	WA.			72 1	966		AIR TEA			2560	07	20		5	X6	1 5	8	I	ı	0005
									COLOR		1	SPEED	BARO		ORY	WET	VIS.	NO. 085.		CIAL								
									CODE	TRANS (m)	OIR.	FORCE	(mbs		BULB	BULR		DEPTHS	OSZEKA	ATIONS								
											08	508	24	0 (056		7	13										
		MESSENGR		Π.				Τ		1						Τ.	₹ <u>\</u> D	1	1		Т							
		TIME	L CAST	CA TY		DEPTH	(m)	Т	℃	S	٠/	SIGMA	4-T		WALY-XI		OYN. N		OCITY	0 2 ml/	PO4		OTA L-P	NO2		NO3-N yg - al/l	\$1 O4~\$1 yg = at/1	рН
		HR 1/10								-							X 103		-		1		-			yy - 01/1	70 - 0	-
			1				_					!												1				
		170			TD	000			170	33		269		0.0	1077	8 (0000		552									
		172 172		08		000			170 196		716 797	269							552									
		112			5 1D	000			196	33		270 270		0.0	1032	, ,	0011		566									
					TD	001			194	33		271				-	0011		566									
		172		06		002		_	194		908	271		000	0971.	2 (0021		568									
		1/2			TD	002			210	34		272		001	3877	1 (0030		579									
		172		QB		004			247		232	273		00.	7017	1 (600									
		2.2			TD.	005		-	262	34		273		200	0707	4 (0046		608									
		172		08		006			306		495	275							633									
					TD	007			320	34		275		0.00	0585	9 (0062		641									
		172		08		009			343		603	275							654									
					TD	010	0	0	339	34	61	275		000)544	9 (0076		654									
				S	TO.	012	5	0	326	34	65	276	0	000	0504	7 (089	14	653									
		172		QB	S	014		0	318	34	666	276	2					14	652									
					TD	015			341	34		276		000)498	4 (102	14	664									
		172		08		T017			372	-	702	276							682									
		172		QB	_	1019			372		701	276							684									
				_	TD	020			373	34		276			0515		127		686									
				_	TD	025			381	34		276			0517		153		698									
		170		_	TD	030		-	390	34		276		000)519	2 (179		710									
		172		OB.		T031			393		739	276	-						714									
		172			T D	040			418	34		276		000	0502	R (230		739									
		172		OB	-	T043:			424 423	34	831	276		0.04	1/. 0.3	,	1770		748									
		172		08	TD	T057						276		000	0481	2 (279		759									
		112			S TD	060			422 420	34	877	276		0.07)472	7 (327		771									
		172		OB		069			420		880	277		500	1412	(1261		784									

REFERENC			TONGITUDE TOCTA	MARSDEN	STATION TI			NATOR'S	DEPTH	MAX.	-	WAVE	WEA-	CLOUD			NODC	
CODE NO	- CODE '		LONGITUDE BY	SOUARE	MD DAY H	YEAR	CRUISE,	STATION	SDITO!	0.0		HGT PER SE	THER	TYPE AM			TATION	
		1/10	1/10 14821 W			02 1966	03		2743	_	18	1 1	$\overline{}$	1	1		2006	
31 70	02 HU 4	426 N C	4021 W					EMP. °C	4-	1 13	110		3 x6	5 8	1		0006	
				WA		SPEED MET	0-				CIAL							
				COLOR	TRANS. DIR.	FORCE Imb		MEL CO	DEPTHS	DBZEKA	ATIONS							
					29	504 24	0 078	5	13									
						T				1							$\overline{}$	T,
	MESSENGE TIME DE	NO. TYPE	DEPTH (m)	1 10	s */	SIGMA-T	SPECIFIC VOL	DYN.	M. 1	DOUTY	02 m1/1	PO4-P	TOTAL →P yg = ai/I	NO2⊷N µg - al/l	NO3-N yg - at/l	\$1 O4-\$i yg - a1/1	рН	S
	HR 1/10							x 10				1.			pg - 607	7.		+
			0000	0559	3444	2710	00000	2 000	. 1,	777				l			1	
	202	0BS	0000	0559	34449	2718 2718	000894	2 000		727								
	202	STE		0557	3445	2719	000884	49 000		728								
	202	085	0012	0556	34454	2720	00000	• , 000		728								
	202	STE		0548	3447	2722	000860	001		726								
	202	OBS	0029	0543	34491	2724			14	726								
		STE	0030	0543	3449	2724	000839	94 002	6 14	726								
		STO	0050	0548	3453	2727	000819	92 004	3 14	732								
	202	OBS	0057	0550	34544	2728			14	734								
		STD		0537	3458	2732	000772	26 006		732								
	202	OBS	0086	0527	34589	2734				730								
	202	ST0 0BS	0100	0508 0497	3458 34577	2736	000740	008		724								
	202	STE		0507	34577	2737 2739	300714	44 010		722								
		STO		0525	3470	2743	000678			741								
	202	OBS	0171	0532	34766	2747	0000,0	00 001		748								
		STO	0200	0524	3483	2753	000586	52 014		751								
	202	OBS	10227	0516	34880	2758			14	752								
		STD		0500	3488	2760	000526			750								
		STD		0470	3488	2764	00049			746								
	202	STO		0422	3488	2769	000452	27 025	-	742								
	202	08S ST0	T0450	0404 0397	34884 3489	2771 2772	000429	97 029		743								
		STO		0397	3489	2774	000429			760								
	202	085	T0668	0378	34897	2775	00042.	, , ,,,		768								
		ST		0375	3490	2775	000416	51 037		772								
		STO	0800	0368	3490	2776	00041	70 042	0 14	786								
	202	085	10888	0363	34905	2777			14	799								
		STE		0363	3491	2777	000416			801								
		STO		0361	3491	2777	000420			816								
	202	STE		0359	3491	2778	000425	53 054	-	832								
	202	08s ST0	T1130 1200	0358 0356	34910 3491	2778	200623	77 050		837								
		STE		0354	3491	2778 2779	000421			848								
	202	OBS	1330	0353	34917	2779	000430	, , , , , ,		869								
	202	003	1000	0000	24711	2117			14	007								

ER	ENCE	SHIP	LATITUE	E	LONGITU		DRIFT	MARS			ION TIN		EAR	CRUIS		TATIO	N	DEPTH TO BOTTOM	MAX, DEPTH OF	000	WAVE ERVATION		WEA- THER COOE	CLOUD		51	HODC ATION UMBER
	NO.	0000	•	1/10		1/10	- = -	10"	1.	MO	DAY HR.	1/10		NO.	1	NUMB	FR	BOITOM	S'MPL'	S DIR.	HGT PER	SEA		TYPE AM		- ''	0 1410 C.K
ı	702	HU	4425	N	04805	5 W		149	48	03 (9 2:	39 1	966		03	1		3200	12	19		3	X 4	5 8			0007
1		'		'			1 1	ſ	WAT	ER	WI	NO	BARC		AIR TE	MP. T		NO.		CIAL							
								ı	COLOR		OIR.	SPEED	METE	R	ORY	WE	T CODE	0.05		ATIONS							
]	COOE	lm)		FDRCE	[mbs		BULS	BUI	-										
								- 1			15	808	24	4 (183		1	13									
		MESSENGR	CAST	CAR	n .					Τ.	.,			SPECIF	ic voru	IM E	₹Δ0	so	UNO		PO4-P	TD	TA L-P	NO2-N	NO3~N	5104-51	
		TIME 6	NO.	TYP		EPTH (lm)	'	*C	,	٠/	SIGM	4-T		WALY-X		X 103	· VEL	OCITY	02 ml/l	pg - 01/		- 01/1	μg - σt/l	1/10 - gu	yg - 01/	pH
		HK 1/10	-		_	-				+						\rightarrow		+-									
			1	S1	τη I	0000	n	۱ ،	508	344	47	272	7 1	001	0813	Q I	0000	114	706		1	1	'			'	
		239	1	089		0000			508		469	272		00.	,,,	_	0000		706								
		257		51		001			498	344		272		0.00	796	5	0008		704								
		239)	089		001			498	34	479	272						14	704								
				51		0020	0	0	498	340	49	273	0	000	769	5	0016	14	706								
		239)	089	5	002	5	0	495	344	491	273	0					14	705								
				S1	TD .	0030	0	0	487	34!	50	273	2	00	0771	1	0024	14	703								
				S1	TD (0050	0	0	452	34	53	273	8	00	0713	2	0039	14	692								
		239)	089	5	005	2	0	449		533	273	8					14	691								
				51		007			407	34!		274		00	0656	5	0056		678								
		239	7	089	S	007	7	0	405		548	274	4						677								
				S.		0100		_	398	34		274	-	00	0617	4	0072		679								
		239	}	083	~	010			397		592	274							679								
						012			426	34		275			0596		0087		696								
						015		-	454	34		275		0.0	0568	6	0101		712								
		239)	089	-	015			458	-	754	275				_	- 1 - 0		715								
						020			493	34		276		00	0505	5	0128		739								
		239	?	085		020			497		910	276			01.41	2	0163		742								
						025			496	34		276			0484		0153		749								
				_		030			492 477	35		276			0466 0425		0221		767								
		239	1	089		040			477		010	277		00	0423	2	0221		768								
		239	,			050			443	34		277		0.0	0407	0	0263		769								
						060			416	34		277			0407		0304		774								
		239	2	08:		061	-		410	-	97 961	277	-	00	0404	7	0004		775								
		235	,			070			404	34		277	-	0.0	0404	.6	0344		785								
					. –	080			393	34		277			0404	-	0344		797								
		239	,	08:		082		_	390	-	949	277	-	00		'	0-02		800								
		23				090			377	34		277		0.0	0413	19	0426		807								
						100			365	34		277			0415		0467		818								
		239	7	08		104		-	361	-	911	277	-						825								
						110		0	358	34	91	277	8	00	0423	34	0509	14	832								
				S	TD	120	J	0	356	34	91	277	8	00	0429	2	0>52	14	848								
		239)	08:	c	123	5	0	356	34	908	277	9					14	854								

								IAL	LE	1.	11.—	-00)114	mu	ea											
REFERENCE				T.	MAR	SDEN	STATID	N TIME	T		1 0	RIGINA	ATOR'S		DEPTH	MAX.		WA	VF	- W	EA-	CLOUD		T	NODC	1
CTRY IO.	CDDE	LATITU	DE	LONGITUDE HE	SDU			MT)	YE	AR	CRUISE		TATION	_	TO	DEPTH DF	085		ATIONS	TH	1ER	CDDES			STATION	
CODE ND.	CODE	•	1/10	1/10	10*	1"	MO OA	Y HR,1/	0		NO.	N	UMBER		BOTTON	S'MPL"	O IR.	HGI	PER S	EA CE	DE	TYPE AM			NUMBER	1
31 702	HU	4423	N	04754 W	149	47	03 10	040	19	66		032	2		3200	12	19			3 X	4	5 8			0008	i
						WAT	ER	WINC	_	BARD)•^	IR TEN	1P. °C	VIS.	NO.	CDE	CIAL	ľ						·		
						COLOR	TRANS.	DIR. c) R	M ETE		ILB	WET	CODE	ORS. DEPTHS		ATIONS									
						COOL		3 51	RCE 2	230		78	1011	1,												
		,					ļ <u>l</u> .	13 31	2	231	0 0	10		1	13	1		Ц_			- 1					
	MESSENGR	CAST NO.	CAR	D DEPTH (m)	1	*C	5 */	. 5	IGMA:	_T	SPECIFIC	VOLUA	7 I D	AN. M		UND	0 2 ml/l		D4-P	TOTAL		NO ₂ -N	NO3-N	SI D4-		S
	HR 1/10		LTP								AROMA			X 10 ³	VEL	DCITY		יע	9 - 01/1	νg - c	17/1	υg ~ ot/l	hð - 01/1	n8 - c	171	c
																									-	
			51			546	3434		712		000	9571	0	000		720										
	040)	085			546	3433		712							720										
	0.40	,	089			492 492	3434		718		000	8935	0	009		700										
	040	,	51			472	3434		718		000	82nz		018		700 671										
	040)	089			402	3433		728		000	020-	• 0	010		665										
			51			437	3436		726		000	8232	2 0	026		680										
			ST	0 0050	0	526	3444	+ 2	722		000	8617		043		722										
	040)	089			530	3444		722						14	724										
			\$1			520	3446		724		000	8452	2 0	064		723										
	040)	085			519	3445	-	725							723										
	040	,	085			515	3446		725		000	8402	2 0	085		726										
	040	,	51			513 441	3446		726		000	7/.01		105		725 699										
			51			405	3449	_	740		000.			123		689										
	040)	089			404	3449	_	740		000	, 01.	, 0	123		689										
			ST	D 0200	0	504	3477	7 2	751		0000	6077	7 0	156		742										
	040)	085	T0209	0	519	3482	20 2	753	3					14	750										
			51			501	3485		758		000			185		750										
			S1			482	3488		762		000			212		751										
	040	1	089			449 446	3492		769		0004	+555	0	260		754										
	040	J	ST			427	3492		770		0004	. 207	7 0	305		755 761										
			ST			409	3492	_	774		0004			348		770										
	040)	085			407	3492		774		000	+20;	, ,	J - 0		772										
			ST			395	3491		774		0004	+314	0	391		781										
			ST	0800 D	0	384	3491	. 2	775		0004	4279	0	434		793										
	040)	085			382	3490)5 2	775						14	795										
			SI			376	3490		776		0004			477		806										
	040	1	085			370	3490	-	776		0004	+343	0	520		820										
	040	,	51			367 363	3490	_	776		000	. 2 7 0		5.1		826										
			51			357	3491	_	778		0004			564 607		834 848										
	0.40)	085			356	3490	_	778		000	+217	, 0	007		848 852										
					·				. , 0						1.4	0) 2										

FERENCE	SHIP	LATITUD		MGITUDE SOUTH	MARS	DEN	STATION				ATOR'S		DEPTH	DEPT		WAVE		WEA-	CLDU	D		NODC	
E ND.	CODE		1/10	MGITUDE ES	10°						STATIO		TO BOTTON	0.0	Ų8.	SERVA TIC		CDDE	COD			TATION	
_	1		-				MO DAY		-					13 mrs	_	HGT PER			ITPE A				
1 70	2 HU	4420	N 04	4733 W	149		03 10		66	03			3475	10	15		3	X5	2	3		0009	
					- 1	WAI		SPEED	BARO-		MP. °C	vis.	NO. D85.		ECIAL								
						CODE	tm1 DiR	FORCE	(mbs)	\$ULB	BULB		DEPTHS	DBSER	VATIONS								
							13	_	213	094	 	\top	13										
	MESSENGI				T 1							 ₹ Δ D	Τ.				-			_	1		Τ.
	TIME	CAST NO.	TYPE	DEPTH (m1	τ	*C	5 %.	SIGMA		CIFIC VOLU		DYN. M.		OCITY	D2 ml/1	PO4-		9-1ATO	NO ₂ -N μg - αt/				c
	HR 1/10	1			<u> </u>		1	+				X 10 ³	+			7011		py - 0.,.	Pg - 017	. pg - 61/1	pg - dir	1	1
					١			1	. 1		_						- }		1				
	109		STD OBS	0000		91	3438 34380	2710		00976	0 (0000		739									
	10		0BS	0007	_	94	34400							739									
	10.		STD	0010		97	3440	2710		00969	6 (010		743									
	109	5	085	0018		04	34400			00709	0 (,010		747									
			STD	0020		04	3441	2710		00972	4 (019		748									
			STD	0030	06	07	3444	2712	_	00954		0029		751									
	105	5	OBS	0037	06	08	34449	2713						753									
			STD	0050	0.5	96	3445	2714	0	00937	2 (0048	14	750									
	109	5	OBS	0056		90	34449	2715					14	749									
			STO	0075		71	3444	2717		00915	7 (071	14	744									
	109	5	OBS	0075		71	34442							744									
			STD	0100		94	3455	2723		00866	0 (0093		759									
	105	5	OBS	0111	-	04	34586	_						765									
	1.00		STD	0125		78	3461	2729		00805	2 ()114		757									
	109		OBS	0148		41	34643							747									
			STD	0150 0200		40	3465	2737		00733	_	134		747									
			STD	0200		96	3476 3484	2749 2 7 57		00627 00552)168)197		746									
	109	5	OBS	10294		83	34886			00002	r (1471		750									
	• • • •		STD	0300		83	3489	2763		00508	6 (224		751									
			STD	0400		76	3489	2763		00511		275		765									
	109	5	OBS	0437		72	34887	2764						769									
			STD	0500	04	62	3494	2769		00466	5 (323		776									
	105	5	OBS	10593	04	45	34975							785									
			STD	0600	04	43	3497	2774	0	00432	6 (368	14	785									
			STD	0700		20	3495	2775	0	00430	7 (412	14	792									
	105	5	OBS	T0784		0.2	34934	2775					14	798									
			STD	0800		99	3493	2775	0	00430	5 (455	14	799									
			STD	0900		79	3491	2776		00431	0 (1498	14	807									
	105)	OBS	0953	0.3	69	34901	2776					14	812									

ERI	ID.	SHIP	LATITU		LON	IGITUOE NO 11/10	2	ARSOEN OUARE		TION THE		re ar	CRU		ROTA	NC	OEPTH TO SOTTON	OEPT OF S'MPI	H 08:	WAVE SERVATIO		WEA- THER COOF	CLOUD CODES		S.	NOOC IATION UMBER	
+				1/10			_		_	-			-	_						HGI FEX					_		
.	702	HU	4415	Νį	04	611 W	14					966	L,	03			3432	1:	18		3	X3	416	i		0010	
								WA.			INO	BARC		AIR TE		VIS,	NO. OBS.		ECIAL								
								COLOR	TRANS	OIR.	SPEED OR	METE (mbs		ORY BULB	W E		DEPTHS	93280	VATIONS								
										01	S15	18.	-	122	10		13										
										01	313	10.		122			_									_	
		MESSENGR TIME O	CAST	CA	RO	OEPTH (m)		1 %	l s	*/	SIGMA	A -T		IFIC VOLU		₹ A D	30	UND	O2 ml/l	PO4-		07AL-P	NO2-N	NO3-N	\$104-51	рН	S
		HR 1/10	NO.	TYI	PE								AN	OMALY-XI	"	X 10 ³	VEL	OCITY		ν ο - α	1/1	ا/10 - وي	µg - at/l	1\1a • gu	l/to - ولا	ļ ,	c
									Т											1							Π
				S	TD	0000	'	0663	34	40	270	1	00	1052	9 '	0000	14	768	'	'		,					
		139		QB.		0000		0663	34	396	270	1					14	768									
		139		QB.		0009		0661	34	400	270	2					14	769									
					TD	0010		0667	34	40	270	1	00	01055	8	0011	14	771									
					TO	0020		0706	34		269		0 (01103	6	0021		788									
		139		ОВ		0023		0712		409	269							791									
					TD	0030		0689	34		270		0.0	01065	7	0032		784									
		139		ОВ	-	0045		0662		474	270							776									
		139		08	TD	0050		0670		49 534	270		00	00999	3	0053		780									
		139			TD.	0067		0680		53	271 271		0.0	00970	7	0077		788									
		139		08		0089		0650		529	271		01	30910	1	0077		779									
					TD	0100		0642	34		271		0.0	00911	1	0101		778									
					TD	0125		0624	34		272			00824		0123		770									
		139		ОВ		0134		0618		682	273		_		-			776									
					TO	0150		0606	34	71	273		0 (00768	5	0143		774									
		139		08	S	T0185		0581	34	773	274	2					14	771									
				5	TD	0200		0575	34	80	274	5	00	00669	9	0179	14	771									
				_	TΟ	0250		0555	34		275	2	0 (00607	3	0210	14	774									
					TO	0300		0533	34		275		00	00549	8	0239		772									
		139		ОВ		T0357		0506		938	276		_					771									
					TO	0400		0476		93	276			00479		0291		765									
		139		08	10	0500 T0529		0422		90 898	277		U	00450	1	0337		759									
		137			2D	0600		0393		89	277		0.	201.25		0.400		759									
					TD	0700		0376	34		277			00435 00435		0 3 8 2		763 772									
		139		QB		T0714		0375		874	277		U	30433	7	0425		774									
		/			TD	0800		0376	34		277		0.0	00433	3	0469		789									
				_	TD	0900		0377		90	277			00435		0212		806									
		139		08		T0930		0377		904	277		0	,,,,,	'	0-12		811									
		/			TD	1000		0375	34		277	-	0.0	00439	5	0556		822									
				_	τD	1100		0368	34		277			00440		0600		836									
		139		ОВ		1129		0356		903	277							840									

												MAX.							
EFER	ENCE ID.	SHIP	LATITU	IDE L	DNGITUDE E	MARSDEN SOUARE	STATION TI	ME YEAR		ATOR'S	DEPTH	DEPTH	OBS	WAVE ERVATIONS	WEA-	CLOUD		5	NODC TATION
DÉ	NO.	CODE	•	1/10	· '1/10 P =	10" 1"	MO DAY H	R.1/10		NUMBER	BOTTOM		DIA	HGT PER SE	CODE	TYPE A M	ř		UMBER
3 1	702	ΗŲ	4408	N 0	4630 W	149 46	03 10 2	07 1966	03	5	3734	13	18	(5 X3	3 8			0011
		. ,		,	·	WA	TER W	IND BARO	AIR TE		NO.	SPECIA	. 1		,				,
						COLOR	TRANS. DIR.	OR METE	R DRY	WET COD	OBS.	OBSERVAT							
						CODE		FORCE Imbal	_										
			,				14	523 139	9 111	100 7	13								
		MESSENGA TIME HR 1/10	CAST NO.	CARO TYPE	DEPTH (m)	T *C	s */	SIGMA-T	SPECIFIC VOLU		VELO		2 m1/l	PO4-P ug - o1/l	TOTAL-P	NO2-N µg - ot/I	NO3-N µg - ol/l	SI O4-Si µg - at/l	рН
									_										
				STD	0000	0895	3476	2695	001110	2 0000		362							
		207		085	0000	0895	34755	2695				362							
		207	1	OBS	0008	0898	34752	2695	001116	2 0011		364							
				STD	0010	0897	3476	2695	001115										
		207	7	STD	0020	0892 0891	3477 34771	2697 2697	001100	0 0022									
		201	1	STD	0030	0913	34771	2698	001088	2 0033	148 148								
		201	7	OBS	0045	0921	34878	2701	001000	2 0000	148								
				STD	0050	0896	3482	2700	001073	5 0055									
		207	7	OBS	0068	0852	34750	2702			148								
				ST0	0075	0870	3483	2705	001031	5 0081	148	366							
		207	7	oas	0090	0898	34956	2711			148	881							
				STD	0100	0881	3497	2714	000949										
			_	STD	0125	0841	3498	2722	000886	4 0129	148	365							
		207	7	OBS	0136	0616P		2754P	000050	2 0151	1.4.0								
		207	7	STD	0150 T0183	0804 0758	3495 34913	2725	000858	7 0151									
		201	'	OBS	0200	0737	3494	2729	000770	3 0103		342							
				STD	0200	0680	3494	2734 2746	000779										
		207	7	085	10269	0660	35000	2749	000011	, 0220		319							
		20		STO	0300	0628	3498	2752	000617	3 0260									
		207	7	085	0364	0571	34965	2758		- 0-00		799							
				STD	0400	0543	3498	2763	000522	6 0317									
		207	7	OBS	T0494	0486	35000	2771			147	786							
				STD	0500	0485	3500	2771	000449	2 0366	147	786							
				STD	0600	0465	3499	2773	000443			795							
		20-		STD	0700	0447	3498	2774	000440	5 0454		-							
		201	1	OBS	T0747	0439	34972	2774	000/07	3 0/ 50	148								
				STD	0800	0430	3497	2775	000437										
				STD	0900 1000	0416 0402	3496 3495	2776 2777	000438			334							
				STD	1100	0391	3494	2777	000441										
				STD	1200	0391	3493	2777	000441			359							
		207	?	085	1255	0376	34924	2777	000-40	1 0074		366							
						- 3,0	2.,,,,,	_ , , ,			440	, , , ,							

										1	_					MAX.	,					T			
REFER	ENCE	SHIP	LATITUO		LONGITUDE H	MARSDE		STATIO!		YEAR	-	ORIGIN			TO	DEPTH	OBS	WAV ERVA		WEA-	CLOUB		١,	TATION	
CTRY	NO.	CODE	LATITUO		LONGITUDE HO				Y HR,1/10		CRU N:		STATIO 8M UP		MOTTOM	OF S'MPL'S			ER SE	CODE	TYPE AMI			UMBER	
				1/10			-				1				20.44				_		1				
31	702	HU	4403	N	04540 W	149	WATE	3 11	015	1966	1-1	O 3			3986	10	23	1 1	1 2	2 x6	5 8	1	- 1	0012	
						-			SPEE	D BAR		DRY	WE	VIS.	NO. OBS.	ORSERV									
							ODE	IRANS.	DIR. OI	1 4-6		BULB	BUI		DEPTHS	OESEK V.	AIIUNS								
							\neg	2	3 52	4 14	9	111	11	1 5	13										
		MESSENGR	CAST	CARD							SPEC	OFFIC VOLU	ME	≥ △ 0	sou	UND	010	PO	1 ₄ -P	TOTAL-P	NO2-N	NO3-N	51 O ₄ —5i	- 11	s
		HR 1/10	NO.	TYPE		1 1	-	5 */	31	GMA-T	AN	OMALY-X1	0.7	X 10 ³	, AEPO	OCITY	O2 m1/1	94	- 01/1	μg = α1/l	μg - σt/l	μg - ο1/I	μg = at/	pН	č
		138 1710	-															1-						Î	
	- 1	l	1	STI	0000	062	77	3412	, ' ,	684	່ດເ	01215	5	0000	14	750		'	1		'			'	٠.
		015		085	0000	06.		3411		684						750									
		015		085	0008	06.		3412		684					14	752									
				ST	0010	06.	28	3412	2 2	685	00	01214	3	0012	14	752									
				STI	0020	05	23	3413	3 2	686	0.0	01203	8	0024	14	752									
		015		OBS	0021	06	22	3413	31 2	685					14	752									
				ST		05		3418		694	0 (01128	4	0036		741									
		015		085	0040	05		342		701						734									
				ST		05		3429		706	01	01013	2	0057		733									
		015		085	0054	05		3431		708						733									
		015		085	0073	05		3436		716			_			728									
				ST		05		3438	_	717	-	00919		0081		728									
		0.1.5		ST		05		3447		723	01	03860	כ	0104		736									
		015		0 B S	0104	054		3445		723 725	0.	00840		0125		737 726									
		015		085		04		3443		727	01	00040	-4	0123		721									
		015)	ST		04		3444		727	0.0	00830	5	0146		722									
				ST		04		3446		729		00818		0187		730									
				ST		04		3448		730		00807		0228		738									
		015	,	085		04		3449		731	0,	00007	۷	0220		742									
		313		ST		04		3450	_	732	0	00796	0	0268		745									
				ST		04		3452		735		00783		0347		760									
		015		085	0430	04		3453	_	735	0	00.03		0241		764									
		012		ST	-	04		3476		756	0.0	00586	4	0415		769									
		015	5	OBS		04		3499		774	•					779									
				ST		04		3496	_	774	0	00428	8	0466		780									
				ST		04		349	_	775		00433		0>09		798									
		015	5	085	T0789	04	36	3498	30 2	775					14	814									
				ST	D 0800	04	35	3498	3 2	775	0	00436	4	0553	14	815									
				ST	0900	04	15	349	7 2	777	0	00429	5	0596	14	823									
		015	5	085	0954	0.3	99	3499	57 2	777					14	825									

-	ID. CO	OE	4657	1/10	LONGITUDE 11/10	\rightarrow	MARS SQU. 10°	1" 68	мо і	11	HR.1/10	YEAR 1966	CRUIS	01	STATIO NUMBE	N R	ВС	137	MAX DEPTH OF S'MPL	'S DIR.	HG	A TIC		WEA THER COD	E T	CLOUD CODES		S N	NOOC TATION IUMBER
								COLOR CODE	_	_	SPEED OR FORG	E (mb	ER s1	DRY BULB	WET BULL	CDI	o a	NO. OBS. IEPTHS		ECIAL VATIONS									
		SENGE IME 0	CAST	CAR		(m)	Ţ	°C	s	*/	1	MA-T	SPECIF	MALY-XI	JME	≨ ∆ (0YN. / X 10 ²	 v.	sou	CITY	O2 ml/		PO4-		IDTAL—I		O2-N g - 01/1	NO3-N 1/10 - Qu	SI O4-Si yg - o1/I	рН
	-	163		51 0B3	000	0	0	044 044 047	33. 33. 33.	291	26	73 73 73		1325		0000		14	489 489		1				1	ı			
		163 163		083 S1	001 D 002	1 0	0	047 047 046	33. 33	298	2 6 2 6	73 73 73		1322 1318		001: 002:		14	492 493 494 495										
		163		5 OB	rD 003 rD 005	0	0	051 092 098	33 33	32	26	75 86 88		1306 1200		004(006	-	14	498 522 526										
		163		S 08 5	rD 007 5 008	5 2	0	102 104 134	33	63 681	26 27	97		1100 0969		009		14	533 535 554										
		163		0B				159		921		716	30	0 / 0 9		011	,		568										

																										,			
REFERENCE	SHIP				2.5	MAR			ION T				ORIGI	NATO	R*S		DEPTH	MAX.	0.0		A VE	214	WEA-		OUD.			NDDC	
CODE NO.	COOE	LATITU		LONGITUOE	0.3		ARE		IGM TI		YEAR	CRU		STAT		В	OT MOTTO	0.5	00				THER					UMBER	
	++		1/10		-	10*	11-	_	\rightarrow	R.1/10		+	_		OEK	+		1	1	1	T PER	25 V	-	1	A M1	1			
31 70	2 HU	4702	N	04744	W	149		03			1966	L	0			C	172	01	28	6	12		X3	3	13	ł		0014	1
							WA	,	+	MIND	BAR		AIR T	_		/15.	NO.	SPE	CIAL										
							COLOR	TRANS	OIR.	SPEED OR FORCE	(mbi		DRY BULB		ILB C		OBS. DEPTHS	OBSERV	ATIONS										
									23	\$33	26	1	017	0	11	7	07												
	MESSENG TIME HR 1/10	T NO.	CA TY		H (m)	T	℃	s	٠/	SIGN	AA-T		OMALY-		S ∆ DYN. x 1	. M.	SOL	DCHTY	O2 ml/		PO 4~		OTA L-7 yg - ol/l			NO3-N yg - at/l	\$1 O4-\$1 yg - a1/l		S C C
		,	S	TD ' 00	00	0	049	33		261	74	0.0	0131	51	000	0.0	14	492											
	18	1	08				049		308	26	74						14	492											
	18	1	OB				048		308	261								493											
				TD 00			048	33		26			0131:		00		_	493											
				TD 00			048	33		26		0.0	131	28	00	26		495											
	18	1	OB				048		312	26								495											
				TO 00			044	33		26		0 (0130	53	00	39		495											
	18	1	08				041		329	26								496											
		_		TO 03			042	33		26		0 (0127	12	000	55		498											
	18	1	08				053		476	_								507											
				TD 00			062	33		268		0.0	0116	77	009	96		513											
	18	1	08				084		584	269								527											
				TD 01			096	33		269			0108		01.			534											
				70 01			131	33		27		01	00991	03	01	50		556											
	18	1	08	S 01	36	0	146	33	890	27	14						14	566											

																								-			
REFERENCE	SHIP						MA	SOEN	AT2	TION 1	IME	WF	L	ORIGIN			_	OEPTH	MAX.		WAVE SERVATIONS	WEA-	CLOUD			NOOC	
CODE NO.	CODE	LATITU		LONG	31TUO '1.		7 L					YEAR	CRL		MUP			TO MOTTOR	OF S'MPL"			THER	TYPE AM			UMBER	
			1/10				10°	1"			4R.1/10		+			DER	+				HGT PER SE	^		1			
31 702	ן טא וְיַ	4700	N	047	30	W	149		03			1966	<u>L</u>	01			0	210	02	21	3 3	X3	3 6		1	0015	
								WA		-	WIND	BAR		AIR TE			/IS.	NO.	SPE	CIAL							
								COLOR	TRAN (m)	S. OIR.	OR FORC	1000		ORY BULR	BU		ODE	DEPTHS	ORSERV	ZHORA							
									\vdash	24			\rightarrow	033	_	28	7	07									
				7			-		Ļ.	147	1327	10		033	_			, 1							1	_	Т
	MESSENG	CAST NO.	CA		DEPT	[H lm]		℃	1	٠/	SIG	MA-T		CIFIC VOLU		₹ ∆ oyn.	D M.	VELO		O2 ml/l	PO ₄ -P	TOTAL-P		NO3-N			C
	HR 1/10	4 NO.	TY	Pt										TOMALI-A	•	x 1	03	VELO	JUNT		yg + 01/1	µ9 + 01/1	µg − ol/l	μg - ot/l	µg = at/1		C
													İ		ĺ											ĺ	
	'		S	TO '	0.0	000		077		42		82	01	01241	8	000	00	145	506								
	20	D	08	S	00	000		077		424		82						145	506								
				GT		10		078		43		82	01	01240	8	00	12		508								
	20	0	08			010		078		426		82							508								
			_	TD		20		107B		143		82	0	01237	8	003	25		510								
	20	0	08			27		077		1432		82							511								
				TO		30		076		150		88		01183		00:			512								
				TO		050		1067		192		22		00858		00!			517								
		_	_	TD	_	75		056		27		51	0	00586	3	00	75		521								
	20	0	OB			080		1054		325		55			_	- 0			521								
		_		TD		100		249		44		51	0	00593	8	0.09	70		613								
	20	0	08			105		286	-	471		50				0.1.			630								
				TD		125		316	_	57		55		00555		010			648								
				TD		150		1349		67		60	0	00513	6	01	18		667								
	20		OB			160		361		705		61							674								
	20	0	OB	S	0	184		387	34	771	27	64						146	690								

REFER	ENCE	SHIP				NOCTR TOUTIE	MARS			ION T	IME	YEAR		ORIGIN			OEPTE		AX, EPTH		WAVE		WEATHER	CLC				NOOC	
CODE	10.	CODE	LATITU	1/10	LONG	1/10	10*				18,1/10	TEAK	CRU		TATIO NU MBE		вотто		OF APL'S		HGT PE			TYPE				UMBER	
31	702	ни	4700		047		149		03			1966	Т	01	6		0638	3 (06	22	3 4		х3	3	5			0016	
		1					- 1	WAT	ER	T 1	VINO	BAR		AIR TE		т-	NO.	╅			- 1	,	1			'	,	0010,	
								COLOR	TRANS,	DIR	SPEED	M EY	ER	DRY	WET		One		SPEC1 SERVA										
								COOE	lm)	1	FORCI			BULB	BULI	+		1											
										22	525	19	3	017		6	11			1									_
		MESSENGE	% NO.	CAS		OEPTH (m)	т	*C	s	٠/.,	SIG	MA-T		OMALY-XI		₹ △ 0 07N. <i>N</i> 10 ³	۱	LOCIT) 2 ml/l	PO4		TOTAL-P	NO2-		NO3-N	SI O4-Si pg - al/		
		HR 1/10	-		-+		-				-								+		-				\dashv			1	+
			1	5	TD !	0000	0	157	33	78	27	0.5	0.0	01023	4	0000	1	454	7		1			I.	1				1
		222	2	08:		0000		157		776	27							454											
				S	TD	0010	0	269	34	32	27	39	00	00695	0	0009	1	460	5										
		227	2	08	S	0010	0	269	34	321	27	39					1	460	5										
					TD	0020		301	34		27		00	0632	9	0015		462											
		222	2	OB.		0027		318		507	27							463											
					TD	0030		322	34		27			00584		0021		463											
		2.2	2		T D	0050		342	34		27		0.0	00536	4	0033		464											
		22	2	08:	S TD	0055 0075		346 351	34	634	27		0.0	00524	2	0046		465											
		22	2	OB:		0075		354		666	27		0 (10324	5	0046		465 465											
		221	_		TD	0100		361	34		27		0.0	00498	4	0059		466											
		222	>	08:		0111		366		724	27				•	V - ,		466											
			-		TO	0125		372	34		27		0.0	00481	,	0071		467											
					TD	0150		380	34		27			00468		0083		468											
		22	2	08		0169		384		776	27							468											
				5	TD	0200	0	387	34	78	27		00	00473	1	0106		469											
		222	2	08	S	T0225	0	389	34	785	27	65					1	469	8										
					TD	0250		392	34		27	65	00	00475	4	0130) 1	470	4										
					T D	0300		397	34			66	00	00470	4	0154		471											
		22	2	08.		T0348		399		821	27							472											
		2.2		_	TD	0400		397	34		27		0 (00468	9	0 < 0 1		473											
		227	2	08		T0466		395		829		68						474											
		2.2			TD	0500		398	34			68	0 (00468	1	0247		474											
		22	2	08.	5	0576	0	409	34	869	27	69					1	476	6										

CTRY CODE		HIP	LATITU	DE 1/10	LONG	GITUOE 1/10	DRIFT	MARS	ARE		TION (GMT	11	YE A	LR.	CRUISE NO.	5	ATOR'S		1	TO TO	MAX. DEPTH OF S'MPL"	i	WAVE		WEA- THER CODE	CLOU	S		NODC STATION NUMBER	4
31		lu	4659		046			10°		-		HR,1/10	196	66		01		`	1 1	116	03	24	HGT PER	3EA		8 3		_		_
1 - 2	, , ,	1	.037	,, 1	0.0	, , , ,,	1 1	ا `	WAT		T	WINO		BARO		IR TEA	_	1	-	NO.			2 3		X1	813	1	1	0017	(1
									COLOR	TRAN!	DIR		ED A	A ETER	R C	DRY ULB	WET	COD	: .	000	SPE(OBSERV	ATIONS								
								}	0000		22	FOR S1		196		63	051	+	+-	08										
	1	SSENGR HME 0	CAST NO.	CAI		OEPTH	lm)	ī	°c	2	•/4.	1	GMA-	T	SPECIFIC	VOLU	ME 3	£ △ □ 2YN. W X 10 ³	7.	SOU		O ₂ ml/l	PO4-1		DTAL-P	NO ₂ -N	NO3-N yg - 01/1	51 O ₄ ~		s C C
														\dashv																-
		025		08	TO `	000			177		88		711		000	962	U	0000)		557									
		025	,		5 TD	000			177 180		875	_	711 712		000	063	1 (0010	,		557 560									
		025	·	08		001			181		911		714		000	7))	1 (0010	,	145										
					TD	002			210		06	_	723		000	846	4 (019	9	145										
					T D	003			246	34	23		734		000	746		027			597									
		025)	QB.		003			255		276		737								602									
		025			TD	005			291		45		748		000	618	7 (040)		623									
		025)	OB.	S TD	006			310 311		539 54		753 753		000	L 70	, ,	055			635									
		025		OB		009			314		559		754		000	570	ь	ככטו	>	146	642									
					TD	010			317		57		755		000	554	9 (069	5		644									
				S	TD	012			338		64		758		000			083			658									
		025	i	OB.	S	012	7	0	340	34	646		759								659									
					ΤD	015			362	34	70	2	761		000	503	7 (095	5	146	573									
		025		OB.	-	019			387		766	_	764							146	591									
					10	020			388		77		764		000			120			693									
		0.26			T D	025			390		78		764		000	482	2 0	144	+	147										
		025)	OB	5	T025	2	0 :	390	34	778	3 2	764							147	703									

REFERENCE																	-	-			
	SHIP				# E	MARS	DEN	STATION	TIME		ORIGINATO	_	OSPINI ms	AX, PTH OR	WAVE	WEA-	CLOUD			100C	
CTRY IO.	CODE	LATITU		LONGITUDE	PREF	SOU				YEAR	NO. NUA		OTTO LL	PL*S DIR	THE T PERT S	CODE		J		UMBER	
-			1/10		+	10"		MO DA'	_		1 1				1-1-1-		1 "	-			
31 70	2 HU	4644	N	04702 W		149		03 12			018		185 1	1 24	2 2	X1	3 3	1		0018	
						}	WAT	-	WIND	8 A R		V15.		SPECIAL							
							COLOR	TRANS. D	IR. C	RCE MET		TEL CODE	OBS SHT43C	ERVATIONS							
						ŀ		1	9 51	$\overline{}$	6 038 0	37 7	10								
			T						<u> </u>				T		1	I					Τ.
	MESSENG	CAST NO.	CAR		lm I	т	℃	s ./.	. 5	IGMA-T	SPECIFIC VOLUME	DYN. M.	VELOCITY	O 2 m1/	PO4-P	101A EP	NO2-N yg ~ al/l	NO3-N yg - ot/l	\$1 O4~5i /10 = 8u	рH	ç
	HR 1/1		111	'E								x 10 ³	VILOCIII		pg - 6171	pg - ai/i	pg - un 1	9g = 61/1	9g - 0171		1
									- 1				1.					ļ	-		
			S1				362	3460		753	0005675	0000	1464								
	0.5	5	085				362	3459		753			1464								
			Si				361	3460		753	0005657	0006	14648								
	0.5	-	SI				360	3460		753	0005654	0011	14649								
	0.5	ל	085				359 360	3460 3461		754	0005617	0017	14650								
			5				362	3461		754	0005634	0028	1465								
	0.5	5	08				362	3460		754	000000	0020	14656								
	0,		S1				366	3464		756	0005461	0042	1466								
				TD 010			373	3468		758	0005251	0055	1466								
	0.5	5	089		2	0	374	3468	4 2	758			1467	0							
			51	TD 012	5	0	386	3473	2	761	0005027	0068	1468	0							
			S1	TD 015	0	0	396	3476	, 2	762	0004926	0081	14688	В							
	0.5	5	089				398	3477		763			1469	1							
				TD 020			400	3480		2765	0004711	0105	1469								
			S				402	3483		767	0004554	0128	1470								
	0.5	5	083				402	3483		767			1471								
	0.5	_	S				400	3484		768	0004512	0151	14710								
	0.5	5	085	-			398	3486		2770	0.004.40	0101	1472								
			S1 S1				400 405	3486		?770 ?769	0004460	0196	1473								
	0.5	5	0B				410	3485		2768	0004654	0241	1476								
	0,5	,		TD 060			408	3485		2768	0004798	0288	1476								
			5				383	3487		2772	0004467	0335	1477								
				TD 080			366	3489		2776	0004787	0378	1478								
	0.5	5	0 B				364	3489		776	.00.22	00	1478								
				TD 090			363	3489		776	0004239	0420	1480								
			_	TD 100			361	3490		2776	0004291	0463	1481								
	0.5	5	08		19	0	360	3489		2777			1482	9							

REFER	ENCE					LE MA	RSDEN	STAT	ION T	IME		OF	RIGINAT	OR'S	DEPTH	MAX		WAVE	WEA	CLOUD		\top	NODC
CTRY	ID.	CODE	LATITU		LONGITUDE	[8 달]	UARE		(G M T)		YEAR	CRUISE		TION	BOTTO	DEPTI	001	ERVATION	CODE				TATION
CODE	NO.			1/10	1/10			MO	_			NO.	NU	MBER	001707	M S'MPL	,2 DIF	HGT PER	SEA CODE	TYPE AM	.1		- Division
31	702	HU	4701	N	04630 W	14	9 76	03	12	086	1966		019		0365	03	19	2 3	X1	3 3	1		0019
							WA	TER	\	MIND	BAR	D- All	R TEMP.	. °C	NO.	SP	ECIAL						
							COLOR	TRANS.	DIR	SPEED	1			WET COD	OBS.	00000	ZHOITAV						
							C001	ļ ,,	11	FORCE			_		0.0	+							
								<u> </u>	14	515	19	6 03	<u> </u>	6	09							т.	
		MESSENG	CAST	CAR		(m)	7 °C	5	٠/	SIGA	MA-T	SPECIFIC		₹ △ D		סאעכ	O2 ml/l	PO4-P	TOTAL-P		NO3-N	\$104-5	
		HR 1/1	NO.	TYPE				1	•••	2/2/		ANOMA	EA-XID,	x 10 ³	VEI	LOCITY		yg - 01/1	\fo + g\	h6 + a1/1	yg - at/l	µg + α1∕	
	Ī																						
	'		'	' st	000	0 '	0377	34	55	27	47	0006	201	0000	1 14	4653		1	'		,	1	
		08	6	OBS	000	0	0377	34	547	27	47				14	+653							
				ST			0378	34		27		0006	233	0006		4655							
		08	6	OBS			0378		545	27						4655							
				ST			0379	34		27		0006	233	0012		4657							
		0.8	6	085			0379	-	549	27						4658							
				ST			0379	34		27		0006		0019		4659							
		0.0	,	ST			0373	34		27		0006	1100	0031		4660							
		0.8	6	08S			0372	34	580	27		0005	055	0046		4660 4664							
		0.8	6	085			0373		584	27		0000	777	0046		4666							
		0.0		ST			0372	34		27		0005	935	0061		4667							
		0.8	6	085			0370		590	27		0000		000.		4669							
				ST			0375	34		27		0005	818	0079		4673							
				ST		0	0387	34	66	27		0005		0090		4683							
		9.0	6	OBS			0396	34	707	27	58				14	4691							
				ST			0410	34		27		0004	819	0116		4703							
		0.8	6	085			0416		859	27						4711							
				ST			0408	34		27		0004		0139		4711							
				ST			0391	34		27		0004	172	0160		4713							
		0.8	6	0.85	0.34	1	0377	34	881	27	74				14	4713							

REFERENCE CTRY ID. CODE NO.	CODE	LATITUO	DE 1/10	LDNGITUDE 1/10	PROV	AARSDEN SOUARE	STA	TION (GMT	TIME I HR,1/10	YEAR	CRUISI NO.	5	ATOR'S	,	DEPTH TD BOTTO	DEE) F	OSZE	WAVE RVATIC	 WEA- THER CODE	CLDUC CODE!			NODC STATION NUMBER	
31 702	HU	4700	N	04610 W	1	49 76	03	12	096	1966		02	0		030	1 0	3 1	11	2 3	X 3	5 8			0020	
·	, ,					W	ATER		MIND	BAR	D	AIR TE	MP. C	vis.	NO.	T ,	SPECIAL								
						COLO	R TRAN		SPEED OR FORC	MET	ER	ORY JULE	BULB	COD	OBS.	0.051	ERVATIO								
								12	518	17	3 0	144		7	09										
	MESSENGS TIME	CAST NO.	CAR		(m)	7 %		s */	SIG	T-AM	SPECIFI	C VOLU		₹ Δ D DYN. M X 10 ³		LOCITY	02	ml/I	PO4-	TOTAL-P up - at/I	NO2-N µg - a1/l	NO3-N ug - ol/l	\$1 O4-5 µg = ot/		200
	•		S1			0390		+53		44	000	647	0 (0000		4658									
	096	•	085			0390		528		44						4658									
	004		SI			0390		453 4531		45	000	1645	6 (0006		4660									
	096)	OB 5			0390		+53 +53		45	000	647	2 (0013		4660 4661									
	096		089			0390		+524		44	000	1041) (0013		4662									
	0 , (,	51			0390		453		44	000	651	2 (0019		4663									
			51			0390		454		45		646	_	0032		4666									
	096	5	089	005	()	0390	34	+535	27	45					1	4666	,								
			51	0 007	5	0381	34	+57	27	48	000	616	8 (0048	1	4667	7								
	096		OB5	007	6	0381	34	+567	27	48					1	4667	7								
			51			0373		+62		53	000	570	5 (0063	1	4669)								
	096		OBS			0373		+627		54						4669									
			51			0391		+68		56		1545	-	0077		4681									
			51			0406		+74		59	000	1517	8 (090		4692									
	096		089			0407	_	4743	-	60	000			. 1 . 5		4693									
	096		089			0428		486		167	000	1455	/ (115		4711									
	096)	\$1			0396		4865		67 71	000	16.10	7 /	1120		4712									
	096	5	089			0391		+87 4871		71	000	419	/ (136		4706 4705									

REFERENCE SHIP	ATITUDE LO	DINGITUDE 11/10	MARSDEN SQUARE	STATION THE	YEAR	DRIGINA CRUISE ST. NO. NE	TDR'S ATION JMBER	POTTO.	OF	WAVE SERVATIONS	CDDS	COOES			NDDC STATION NUMBER
31 702 HU 47	719 N 0	4610 W	-	03 12 1	25 1966			0640	05 30	2 3	Х6	5 8			0021
			WAT		IND BAR		VIS	NO.	SPECIAL						
			COLOR	TRANS. DIR.	SPEED MET OR (mb		BULB COD	OBS. C	DBSERVA TIDNS						
				11	S22 14	6 050	3	11		1					
MESSENGR C. TIME of)	AST CARD	DEPTH (m)	T *C	s */	SIGMA-T	SPECIFIC VOLUM	£	VELOC		PO4-P pg + at/1	TOTAL-P pg - qt/l	NO2-N µg - at/1	NO3-N µg - al/l	SI D4-S	
	STD	0000	0347	3451	2747	0006175	0000	146	40		•			•	
125	085	0000	0347	34513	2747			146	40						
125	OBS	0009	0347	34517	2748			146	41						
	STD	0010	0347	3452	2748	0006154			41						
	STD	0020	0348	3452	2748	0006167	0012								
125	OBS	0025	0349	34518	2748			146							
	STD	0030	0354	3454	2749	0006062									
	STO	0050	0368	3461	2753	0005685	0030								
125	085	0050	0368	34610	2753			146							
	STD	0075	0366	3462	2754	0005613	0044								
125	OBS	0076	0366	34624	2754			146							
	510	0100	0380	3468	2757	0005324	0058	-							
125	280	0101	0381	34687	2758			146							
	STD	0125	0382	3472	2760	0005091	0071								
125	515	0150	0383	3475	2762	0004898	0083	_							
125	OBS	0153	0383	34750	2763			146							
125	STD	0200	0389	3479	2765	0004677	0107								
125	OBS	0205	0390	34796	2766		- 1	146							
	510	0250	0400	3483	2767	0004540									
125	STD OBS	0300 T0306	0412	3486	2768	0004486	0153								
125	STD	0400	0413 0403	34862	2768	000/3//	010	147							
125	085	T0412	0403	3488	2771	0004364	0197								
123	STD	0500	0393	34879 3489	2771 2773	0004253	0346	147							
125	085	0517	0391	34890	2773	0004253	0240) 147 147							
127	003	0211	0271	74070	2113			14/	47						

00000																		144									
REFER	ID.	SHIP	LATITU	DE	LDN	GITUDE E	SOU	ARE	TAT2	ION T GMT)		YEAR	CRU	ORIGINA	TATION		DEPTH	DEPIN		SERVA		WEA				NDDC TATION	
CTRY	NO.	CDDE	•	1/10		1/10 0 3	10*	1.	MD [DAY H	18.1/10		N		UMBER		BOTTON	S'MPL	S DIR	HGT F	PER SE	CDD				UMBER	
31	702	HU	4740	N	046	510 W	149	76	03	12	150 1	966		022	2		1097	10	13	4		X 7	5 8			0022	
							•	WAT	ER	V	VIND	BARO	. [AIR TEN	1P. °C		ND.	1		' '	'	, ,,,	, , , ,	, ,	'	00221	
								COLOR	TRANS.	DIR.	SPEED	METE	R	DRY	WET	CODE	OBS. DEPTHS	D. D. C. C. C.	CIAL /ATIONS								
								CDDE	uni	13	FORCE	(mbs)	-	BULB	BULB	-											
									,	13	520	125	2	039		5	13	<u> </u>		<u> </u>				-,		,	-
		MESSENGE	CAST OF NO.		RD PE	DEPTH (m)	т	°C	\$	٠/	SIGM	A-T		OFFIC VOLUA		YN. M.		UND	D ₂ ml/		4-P	TOTA L-F					500
		HR 1/10		11	PE.								AN	OMALT-X10		x 10 ³	VEL	DCITY	•••	10	- 01/1	yg - al/l	µg - 01/	µg - at/	yg - 01/1	pri	č
					TO '	0000		373	345		275		00	05914	+ 0	000		652		•							
		150		OB		0000		373		086	275							652									
		150	,	OB	5 TD	0009		372 372	345		275		0.0	0.05.04.6		000		653									
					TD	0020		373	345		275 275			05960 05960		006		653									
		150)	ОВ		0023		373	345		275		00	,0,,00	, ,	012		655									
					TD	0030		374	345		275		0.0	005950) (018		657									
		150)	0 B		0045	0	3 75	345	82	275	0						660									
					TD	0050		375	345		275		00	005940) (030	14	661									
		150)	0B		0068		375	345		275						14	664									
		15/	_		TD	0075		378	346		275		00	005653	3 0	044		667									
		150	J	08		0091 0100		382 383	346		275		0.0	205105		050		672									
					TD TO	0125		384	34		275 276			005195		058		674									
		150)	08		0136		385	34		276		50	005010) (071		679									
					TD	0150		402	34		276		0.0	004837	7 0	083		691									
		150)	OB		T0182		426	348		276		•					707									
					TD	0200		417	348		276		00	04571	. 0	106		707									
					TD	0250		399	348	35	276	9	00	004408	3 0	129	14	707									
		150)	ЭB		T0273		393	348		276							709									
		250			TD	0300		390	348		277		0.0	04331	l o	151		712									
		150	,	0 B	T D	T0354 0400		385 381	348		277					10.		719									
					TD	0500		374	348		277 277)04254)04195		194		725									
		150)	0B		T0541		372	348		277		U (704193	, 0	236		738									
					10	0600		370	348		277		0.0	04159	0	278		753									
					TD	0700		366	348	_	277			004172		319		768									
		150)	OB		T0736		364	348		277		-		. 0	-1)		774									
				S	TD	0800	0	361	348	39	277		00	04165	0	361		783									
				S	GT	0900	0	356	348	39	277	7	00	04192		403		797									
		150)	06	S	0961	0	353	348	95	277	7					14	806									

REFERENCE					MAR	DEN	STATIO	N TIME	_			ORIGIN/	TOR'S		DEPTH	MAX		WA	NVE	WEA	CLOUD	T		NODC	
CTRY ID. CC	HIP LA	ATITUDE	LON	NGITUOE NGITUOE	Son		(G	AT)	Y	EAR	CRUISE	5	OITAT	v	TO	DEPTH	1 003		A TIONS	THER	COOES			STATION	
CODE NO.		1/10	1	1/10	10*	1.	MO OA	Y HR.1/	10		NO.	N	UMBE	2	BOTTOM	S'MPL	5 DIR.	HG	T PER 5	EA COO	TYPE AM		-	NUMBER	
31 702 =	1∪ 47	756 N	04	610 W	149		03 12			966		023			1097	10	15	2	3	X7	5 8			0023	
						WAT		WIND		BARO	-	AIR TEA		VIS.	NO. 085.		CIAL								
						COLOR	TRANS. ((R_ (RCE	(mbs		DRY ULB	BULB	CODS	DEPTHS	OBSER	2 NOIT A								
							1	3 50		105	5 0	33		5	12										
AA E	SSENGR			T	\top						EBECIEN	VOLU/		₹ △ 0	50	UNO		T	PO4-P	TOTAL-	NO2-N	NO3~N	SI O4-		s
'	TIME OF N	NO. T	A R D Y P E	DEPTH (m)	1	℃	5 °/	. :	IG M A	1-4		ALY-X10		X 10 ³		DCITY	O ₂ ml/l		g = 01/L	1012 Eur		V8 - 01/1	NB - 01		C
HR	1/10				+-					-			+					+							+
-	ı	, I,	STD	0000	1 0	370	3454	. 1	274	я Я	000	616	. I	0000	1 14	650		-		I	1			1	11
	175	0		0000		370	3454		74							650									
	175		35	0009	0	371	3456	6 2	274	9						652									
			STD	0010	0	371	345	7 2	75	0	000	597	9 (0006	14	652									
			STD	0020		371	345		275		000	599	1 (0012	14	654									
			STD	0030		372	345		275		000	600	3 (0018		656									
	175		35	0047		372	345		275							659									
			STD	0050		372	3458		275		000	596	5 (0030		659									
	175		35	0070		373	345		275		0.00					663									
			STD	0075		373	3458		275		000	598	2 (0045		664									
	175		35	0094		374 376	3459		275 275		000	580	. ,	0060		668									
			STD	0125		382	3461		275			536		0060		677									
	175		35	0141		383	3470		275		000	,,,,,,,	_ \	0014		681									
	1.7		510	0150		380	347		276		000	514) (0087		681									
	175		35	0189		375	347		276		000		,	0001		685									
			STD	0200	0	382	347		276		000	513) (0112		690									
			STD	0250	0	405	347	2 2	275	8	000	541	4 (0139	14	708									
	175	01	35	T0289	0	411	3474	5 2	275	9					14	717									
			STD	0300		407	347	5 2	276	l	000	518	4 (0165	14	718									
	175		BS	T0382		386	3486		277							724									
			510	0400		385	348		277			1422		0212		726									
			STD	0500		378	348		277		000	423	9 (0255		740									
	175		35	10576		374	348		277							751									
			STD	0600		373	3488		277			419		0297		755									
	176		012	0700		370	3489		277		000	418	J (0339		770									
	175		BS STD	T0774		367 366	3489		277 277		000	419	,	0381		781 785									
			STO	0900		361	348		277			1419.		0281 0423											
	175		BS	0994		355	348		277		000	4221	, (0423		800									
	110	0	00	0774	0	100	240	, ,	. 1 1	4					14	010									

e e e e	FNCE	1				_																					
PER	ID.	SHIP	LATITU	DE	LONGITUE	DRIFT		RSDEN UARE	TATE	IDN TI GMTI		EAR CO		SINAT			PTH	MAX.		WAVE		WEA-	CLONE			NDDC	
30	ΝО.	CODE	•	1/10		/10 2	10*		MO E			IC.	NO.		MBER		O TOM	DF S'MPL'	1 08			THER	CODES			STATION	
1	702	HU	4820	N	04610	W	149					966	1	24		10	07		1	H GT PER	2FW		TYPE AN	17			
		' '		'		'		WA			IND I			TEMP	· + 1	1		11	0.3	3 3	1	X 7	5 8	1		0024	
								COLOR	TRANS.	DIR.	SPEEO	BARO- METER	DRY	_	WET CO	S. 01	10		CIAL ATIONS								
								CODE	lm1		FORCE	(mbs)	BULB		BULB	DEP	гнѕ	DOSEKY	AIIUN								
										19	S15	088	022		3	1	3										
		MESSENGR		CAR	D 000			T %	1	.,		(9)	ECIFIC VO	II II AA E	. ₹ △	ōΤ	sou	1412									
		TIME HR 1/10	NO.	TYP	E DEP	H (m)		T *C	2	*/	SIGMA		NOMALY-		DYN,	M.	VELO		02 ml/l	PO4-		g - 01/1	ND2←N 2 - αI/I	ND3~N yg = 01/I	\$1 O4-5		
							1		i –			_		_	1	+	_			+	-	-		99 - 0.77	7.0	-	Ц
			1	ST	D 00	00	1 0	356	346	3	2755	. 1	0054	15	000	ا ر	1 /. 4	545				- 1					
		199	7	OBS		100		356	346		2755	_	0024	1 -	000	-		545									
				ST		10	C	360	346		2757		0052	88	000			549									
		199	9	OBS	00	10	C	360	346		2757			-	0.00		-	49									
				ST		20	C	364	346	6	2757	7 0	0052	82	001			552									
		199	•	085		125	0	365	346	59	2757						_	553									
				ST		30		366	346		2757	' 0	0052	68	001			554									
		10-		ST		50		368	346	6	2757	0	0053	06	002	6	146	559									
		199	7	OBS		52		368	346		2757						146	559									
		199	,	ST OBS		75		372	346		2757		0052	94	004	0	146	65									
		133		ST		77		373	346		2757							65									
		199)	OBS		04		386	347	_	2759		0051	44	005			75									
				ST		25		387	347		2761		0010		000			76									
				ST		50		388	347		2763		0049 0048		006 007			80									
		199		OBS		56		388	347		2763		0040	4)	00 /		146	86									
				ST	D 02	00		381	347		2764		0047	4.5	010		_	90									
		199		OBS				380	347		2765	_	00-1	40	010		L 46	-									
				ST	D 02	50		389	347		2765		0047	23	012		L 40										
				ST		00	0	395	348	1	2766	_	0046		014		47										
		199		OBS				396	348		2767						47										
		1.0-		ST				390	348		2767	0	0046	57	019		47										
		199		OBS		16		389	348		2768						47										
				ST				393	348		2770		0045		024	Li	47	46									
		100		ST				398	348		2771	0	0045	49	028	7]	47	65									
		199		08S				399	348		2771						47										
				ST	_			390	348		2772		0044		033		47	-									
		199		085				381	348		2774	01	00439	93	0376		47										
		179		ST	08 0 09			378	348		2775						47										
				ST				373 369	348		2775		0043		0420		48										
		199		OBS	10			367	349		2776	0 (00439	1	0464		48										
				003	10	,	0	301	246	90	2776					1	48	29									

EFER	ENCE	91/12			- 5	MARSO	EN	STAT	ION TI			OF	GINAT	2°8C		OEPTH	MAX.		WAVE		WEA-	CLOUG			NODC	
TRY	10. NO.	CODE	LATITU	OE 1/10	TONGITUDE FEE	SOU AF			GMT)		YEAR	CRUISE NO.		TION	0	TO MOTTOR	0.5	"	HGT PE		COOE	TYPE AM			NUMBER	
31	702	HU	4835	_	04610 W		_	_	_		966		025		2	2012	13	04			X 7	5 8			0025	
-1		- 1			- 1	՝ բ	WAT	ER	W	INO	BARC	1 41	TEMP.			NO.			7	ı	1	, , , ,	'	'	00231	
							OLOR	TRANS.	OR.	SPEED	METE	R DR		MET C	VIS.	OBS.		CIAL /ATIONS								
							ODE	tm)	10	FORCE	(mbs			OLB	-				-							
	1								19	517	07	5 01	-		6	13										
		MESSENGR TIME (MR 1/10	CAST NO.	CARC		τ '	'c	s	*/	SIGMA	A-1	ANOMAL		DYN	1. M. 10 ³		OCITY	O ₂ ml/	7 PO4		TOTAL-P ug - ot/I	NO ₂ -N μg - σt/1	NO3-N	SI O4-3 pg - 01/		SCC
							0.1			2.74	. 1		·			Ι,.										
		224		ST OBS		03		347		276 276		0004	899	00	00		661									
		224	'	51	•	03		347		276		0004	842	00	05		661 666									
		224		085		03		347		276		0004	042	00	0)		666									
				ST	0020	03	98	347	15	276		0004	867	00	10		668									
		224		085	0026	0.3		347		276						146	669									
				ST		0.3		347		276		0004		00			669									
		224		ST		03		347		276		0004	874	00	24		673									
		224		085 51	0052 0 0075	03		347		276		0004	001	0.0	27		674									
		224		085	0079	03		347	-	276 276		0004	884	00	31		677 678									
		227		ST		04		347		276		0004	887	00	49		682									
		224		OBS	0106	0.4		347	_	276				-	.,		683									
				ST	0125	03	93	347	77	276	3	0004	812	00	61		683									
				ST		03		347	77	276	4	0004	755	00	73	146	685									
		224		OBS	0158	03		347		276							686									
		224		ST		03		348		276		0004	578	00	96		696									
		224		OBS	0211	03		348		276		0.004		- 1			699									
				ST ST		03		348		276 276		0004		01			706									
				51		03		348		277		0004		01	_		714 731									
		224		OBS	T0422	03		348		277		0004	200	01	04		735									
				ST		03		348		277		0004	209	02	27		745									
				ST	D 0600	03	82	348	39	277		0004		02			759									
		224		085	T0636	03	79	348	94	277	5					14	763									
				5 T		03		348	9	277	5	0004	206	03	11	14	772									
		774		51		03		348		277		0004	226	03	53		786									
		224		OBS	T0850	03		348		277			2 7 6				793									
				ST		03		349		277		0004		03		148										
		224		085	T1082	03		349		277		0004	220	04	38		815									
		4		ST		03		349		277		0004	207	04	80		827 829									
				ST		03		349		277		0004		05			845									
		224		OBS	1276	03		349		278		,,,,		-			858									

TABLE IV. Observed and interpolated oceanographic data taken by USCGC EVERGREEN on North Atlantic Standard Monitoring Sections 2, 3, 4, 5 and 6, 25 October, 13 November 1966; prepared from NODC listing No. 31–8007.

FERENCE IV IO. NO.	CODE	LATITUO	DE LO	PREITUDE 30 TIDM	MARSDEN SOUARE	STATION THE	YEAR	CRUISE	ATOR'S STATION NUMBER	DEPTH TO 60TTO	DEPTI	H 06	WAVE SERVATIONS HGT PER S	CODE	CODES	ī	5	NODC PATION UMBER	
1800	7 EV	3505	N 0.	7506 W	116 55	10 25 0	29 1966	02	0	0545	5 09	5 36	1 2	X1	0 3			0031	
					WAT	ER W	IND BAR	On AIR TE	MP. °C	NO.	7	ECIAL						00-21	
					COLOR	TRANS, DIR.	SPEED MET	ER DRY	WET CO	OBS.	ORECO	VATIONS							
					CODE	(m)	FORCE (mb)		BULB		1								
					DT	SD 35	S12 18	16 217	211 8	24	1								
	MESSENGR	CAST	CARO	OEPTH (m)	7 %	s */	SIGMA-T	SPECIFIC VOLU	IME SA	sc sc	UND		PO4-P	TOTAL-P	NO2-N	NO3-N	51 04-51		s
	HR 1/10	NO.	TYPE	CEPTER DAY	' "	,	3IGMA=1	ANOMALY-X	X 10	N. VEI	.00177	02 ml/	μg = at/l	νg = α1/1	μg - αI/I	yg = at/1	yg = at/l	pН	c
						<u> </u>							1				†——		+
))	STD	0000	2558	3592	2388	004037	5 000	a 1	5372	l	1	I	1 .		ı	1	ч
	029	,	OBS	0000	2558	35917	2388	00403	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		5372								
			SID	0010	2558	3592	2388	004042	3 004		5374								
			OBS	0010	2558	35916	2388				374								
			STD	0020	2544	3592	2392	004009	2 008		372								
	001		OBS	0020	2544	35916	2392			_	372								
			085	0025	2520	35936	2401				368								
			ST0	0030	2478	3596	2415	003784	3 012		359								
			OBS	0030	2478	35961	2415			13	359								
			085	0035	2340	36036	2462			1:	327								
			STD	0050	2295	3628	2493	003048	6 018	8 1	321								
			OBS	0050	2295	36276	2493			1 :	321								
			STD	0075	1987	3636	2585	002187	9 025	3 1	246								
			OBS	0075	1987	36356	2585			1	5246								
			STD	0100	1699	3624	2649	001588	7 030	1 1	167								
			085	0105	1662	36215	2655			1	5156								
			STD	0125	1586	3610	2664	001446	3 033	9 1	5135								
			OBS	0125	1586	36099	2664			1	5135								
			STD	0150	1507	3592	2668	001416	7 037	4 1	5112								
			085	0150	1507	35916	2668			1 !	5112								
			085	0188	1368	35806	2689			1:	072								
			STD	0200	1257	3564	2699	001130	6 043	8 15	035								
			085	0200	1257	35636	2699			1:	035								
			OBS	0225	1181	35521	2705			15	012								
			STD	0250	1067	3536	2713	000997	7 049	1 14	974								
			OBS	0250	1067	35361	2713				974								
			OBS	0285	0987	35225	2717			14	949								
			STO	0300	0909	3514	2723	000910	5 053	9 14	921								
			OBS	0300	0909	35136	2723				921								
			085	0350	0810	35061	2733				891								
			085	0380	0800	35115	2738				893								
			STD	0400	0733	3507	2745	000707	7 062	-	870								
			085	0400	0733	35074	2745				870								
			OBS	0435	0646	35055	2756				841								
			OBS	0475	0488	34961	2768				783								
			STD	0500	0480	3496	2768	000475	9 067		784								
			OBS	0500	0480	34956	2768				784								
			085	0540	0472	34955	2769			14	787								

IO.	-	SHIP	LATITU	OE 1/10	LON	IGITUOE NO COLOR	M A R! SOU	ARE	1	ON TI		YEAR	CRI		STAT	TION	OEI T BOTI	0 1000	H OBS	WAVE ERVATION	 WEA- THER CODE	CLOUD CODES		15 21 N	OOC ATION UMBER	
800	17	EV	3449		07	435 W	116	1			71	196	6	0	21		30	35 1	-	3 2	X1	0 3			0032	
	,							WA	rea	W	ONL		RO-		TEMP.	VIS	NO	D. S7	ECIAL							
								COLOR	TRANS.	OIR.	SPEEC OR FORC	177.5	TER bs)	ORY BULB	81	VET CO	OEP	THS OBSER	ZNOITAV							
								ОТ	SD	01	\$18		07	244		222 7	2	9								
		ESSENGR TIME O	CAST NO.	CAR TYP	E E	DEPTH (m)	Т	℃	5	٠/	SIG	MA-T	SPE	CIFIC VO	LUME X107	₹ △ 0 0YN. / × 10 ³	й.	SOUNO VELOCITY	O ₂ ml/l	PO4-P µg - at/	TA L - P	NO2-N yg - o!/i	NO3-N pg - al/l	\$1 O4-\$1 yg - 01/1	рН	S
	ľ	R 1/10					-						1													+
		071		0B:	TD	0000		665	36	07 074		366 366	0	0424	47	000	0	15398 15398								
		071			o TD	0010		669	361			364	0	0426	96	004	3	15400								
				0В.		0010		669		062		364						15400								
					TO	0020		669	36			364	0	0427	38	00B	5	15402								
		002	-	OB.		0020		669		062		364						15402								
				OB.	5 TO	0025 0030		665	36	063		365 367	0	0425	15	012	g	15402 15402								
				0B		0030		661		065		367		0423	1)	0.12	U	15402								
					TO	0050		2652	36			369	0	0423	26	021	3	15403								
				08		0050		652		065		369						15403								
					TD	0075		648	36			375	0	0419	21	031	8	15407								
				0B.	_	0075 0085		2648		119 300		375 410						15407 15395								
				OB		0090		2598		383		410						15401								
					TO	0100		555	36			427	0	0370	30	041		15393								
				OB		0100		2555		427	24	+27						15393								
					TD	0125		2411	36			+B2	0	0318	363	050	3	15365								
				OB.		0125 0150		2411	36 36	578		482 529	0	0275		057	7	15365 15340								
				OB	TO	0150		286		704		529	U	0215	149	001	Į.	15340								
				OB		0170		203		745		555						15323								
					TD	0200		2074	36			589	0	0220	000	070	1	15294								
				OB		0200		2074		712		589					_	15294								
					TD	0250		1926 1752	36 36			516 543		0199 0170		080 089	-	15260								
				08		0300		1752		336		643		,01,0	772	009	O	15216								
					TD	0400		1323	35			591	С	0126	62	104	5	15091								
				ОВ		0400	1	1323	35	701	21	591						15091								
					ΤD	0500		1107	35			712	C	0106	96	116	2	15030								
				08		0500		1107		440		712						15030								
				OB	S TD	0560 0600		916	35 35	155		723 729	0	0091	42	126	1	14967								
				OB		0600		1879		146		729	0	00)	72	120	*	14960								
				08	S	0630	0	0870	35	108		727						14961								
				ОВ		0678		761		026		737						14926								
					TD	0700		766	35			737	C	10083	353	134	9	14932								
				OB	10	0700 0800		766	35 35	U36		737 766	_	0054	.54	141	Ω	14932 14864								
				08		0800)553		036		766		1002	,,,	1 1 1	0	14864								
				ОВ		0850	()491		026		773						14847								
					TD	0900		0491	35			773	C	004	774	146	9	14855								
				08	S TO	0900		3491		034		773	_	0075		161	_	14855								
				08		1000		044B	35 35	003		776 776	C	0045	100	151	כ	14854								
					TO	1100		1427	35			778	C	0044	448	156	0	14862								
				08		1100	(0427	34	996	2	778						14862								
					TD	1200		0410		99		779	C	0044	+03	160	5	14871								
				60	3 TD	1200		0410	34 34	986		779 779		0043	300	104	0	14871								
				08		1300		0400		983		779	(70043	790	104	7	14884								

REFERENC	CE	SHIP			w L	MARSDEN	STAT	ION TI			ORIG	OTANI	nR°S	DEPTH	MAX		WAVE	w	EA-	CLOUD			NODC	7
TRY ID		CODE	LATITUI		NGITUDE S	SOUARE		GMT)		YEAR	CRUISE NO.	STAT		TO BOTTON	. OF	1	SERVATION	5 TH	HER DDE	CODES			STATION	
		Eu	2/2/	1/10	1/10		MO C					NUN	1828		2 16/15	_	H GT PER	-		TYPE AM				-
31 80	υυη	EV	3436	N 07	408 W	116 44 WAT			01 1	966	1 410 1	22 EMP.	*c	3658	T		1 2)	(1	0 3	1	1	003	3
						COLOR	TRANS.	DIR	SPEED	BARC	-	_	VIS.	NO.	COCCO	ECIAL VATIONS								
						CODE	{m}	DIR	FORCE	(mbs		BL	JL8	DEPTHS	5	77110113								
						DT	SD	03	506	16	6 240	2	20 7	26										
		MESSENGR TIME	CAST	CARD	DEPTH (m)	T fc		-/	SIGMA	7 - 4	SPECIFIC VO	LUME	₹ ∆ o	so	UND	O2 ml/1	PO ₄ =P	TOTAL	L-P	NO2-N	NO ₃ -N	\$104-	-Si	5
		HR 1/10	NO.	TYPE	Derin on		1		310 M/	`-'	ANOMALY-	-X10 ⁷	X 10 ³	, AET	OCITY	U 2 m1/1	μg - 01/l	νg - 0	нА	ug = at/l	yg - a1/1	yg + 0		č
											-								T					
	,			STD	0000	2695	36		235		00433	89	0000		5405				Ċ			'	·	
		10	l	OBS	0000	2695		070	235						5405									
				STD	0010	2695 2695	36)/)70	235		00434	31	0043		5406									
				STD	0010	2695	36		235		00434	72	0087		5406									
		002	>	085	0020	2695		270	235	_	00434	13	0001		5408									
				OBS	0025	2695		70	235						5409									
				STD	0030	2695	361		235		00435	14	0130		5410									
				OBS	0030	2695		70	235	6				19	5410									
				STD	0050	2695	360		235		00435	98	0217		5413									
				OBS	0050 0075	2695 2695		070	235	-	20123	0.3	0.10-		5413									
				STD OBS	0075	2695	36		235		00437	02	0327		5417									
				STD	0100	2560	36		242		00375	52	0428		5394									
				OBS	0100	2560	36		242		000,0	,,	0.20		5394									
				STD	0125	2452	36		246		00331	97	0517		5375									
				OBS	0125	2452	36	556	246	8				19	5375									
				STD	0150	2254	36		254		00264	61	0591	15	333									
				OBS	0150	2254	36		254						333									
				OBS STD	0160 02 0 0	2171	36		256		00202	0.5	0700		313									
				085	0200	2000	366		260 260		00203	05	0708		5274									
				STO	0250	1884	36!		262		00183	29	0805		5249									
				085	0260	1869	365		263		00103		0000		246									
				STD	0300	1839	36	57	263		00174	94	0894		5244									
				085	0300	1839	36	668	263	9					5244									
				STD	0400	1758	364		265	2	00165	73	1065	15	236									
				OBS	0400	1758	36		265						236									
				STD	0500	1689	36.		265		00162	15	1228		230									
				OBS	0500	1689	36		265		0000		120		230									
				STD OBS	0600 0600	1460 1460	359		268		00143	02	1381		171									
				STD	0700	1188	35!		268 270		00118	5.7	1512		5171 5092									
				085	0700	1188	35!		270		50116	,	1012		5092									
				STD	0800	0957	35		272		00100	78	1622		5023									
				085	0800	0957	35		272	4					5023									
				STO	0900	0743	35		274		00079	67	1712		957									
				085	0900	0743	350		274						957									
				STD	1000	0590	350		276		00061	34	1782		912									
				OBS STD	1000 1100	0590 0518	350 350		276		00063	26	1860		912									
				085	1100	0518	350		277		00053	20	1840		+900 +900									
				STD	1200	0467	350		277		00049	0.8	1891		895									
				085	1200	0467	350		277		000.7	,,	20,1		895									
				STD	1300	0450	350		277		00047	50	1939		905									
				085	1300	0450	350		277						905									
				STD	1400	0434	350		277		00046	96	1986		915									
				085	1400	0434	350		277		0006		1000		915									
				STD OBS	1500 1500	0412	350		278		00046	00	2033		+923									
				005	1500	0412	350	101	278	U				1 4	+923									

	HIP L	A TITU'DE	LOP	ACITODE SECTION	MARSDEN SOUARE	STATION TI		YEAR	ORIG	INATOR*		DEPTN	MAX. DEPTH	OBS	WAVE ERVATIONS	WEA- THER	CLOUD			NODC]
CODE NO. CO	300	1/10		· 1/10 0 %	10" 1"	MO DAY H	R.1/10		NO.	NUMBI	R	NOTTOR	S'MPL"	DIR.	HGT PER SE		TYPE AMI	1	N	UMBER	
318007 E	V 3	421 N	07	338 W	116 43	10 25	141]	1966		23		3931	. 15	09	2 3	X1	03		1	0034	
					WAT		'IN D SPEED	BARC)• 	EMP. ℃	VIS.	NO. OBS.	SPE	CIAL							
					COLOR	TRANS. DIR.	DR	M ETE		BUL	CDDI	DEPTHS	OBSERV	ATION S							
					OT	50 08	504	17	6 250	22	2 8	25									
MFS	SENGR	AST CA	ARD.				Т	'	SPECIFIC VD			1 .0	סאט		T				61.0		7,
1			YPE	OEPTH (m)	T °C	s %.	SIGM	A-T	ANOMALY-	x107	₹ △ D DYN. M X 10 ³	. AET	OCITY	O2 ml/l	PO4-P ug = 01/1	fOTAL-P ug = ot/l	NO2-N µg - at/l	NO3-N yg - al/l	\$1 O4-51 /10 - gu	рН	c
n k	1710	_					 			$\overline{}$		+			+						+
1	1	١ ,	STD	0000	2401	3634	246	57	00327	67	0000) 15	340		1 1	,	'		ı	'	11
	141		BS	0000	2401	36343	246						340								
			5 T O	0010	2388	3634	247		00324	46	0033		338								
			BS	0010	2388	36342	24		00000		0015		338								
	002		STO BS	0020 0020	2380 2380	3634 36341	24		00322	68	0065		338								
	002		85	0025	2380	36341	247						339								
			STD	0030	2380	3634	24		00323	08	0097		340								
			BS	0030	2380	36341	247					15	340								
			510	0050	2380	3634	247		00323	95	0162		343								
			85 5 T O	0050 0075	2380 2380	36340 3634	247		00324	0.5	0243		343								
			BS	0075	2380	36340	241		00324	7)	0243		347								
			85	0085	2380	36341	24						349								
			STD	0100	2125	3664	256		00234	60	0313		290								
			95	0100	2125	36642	256						290								
			STO	0125	1985	3668	261		00197	06	0367		257								
			95 5 T D	0125	1985 1905	36675 3664	261		00100	0.1	0/.1/		257								
			BS	0150	1905	36635	262		00180	91	0414		239								
			STO	0200	1839	3660	264		00169	48	0502		228								
			BS	0200	1839	36595	264						228								
			STO	0250	1820	3659	264		00167		0586		231								
			STO	0300	1801	3658	265		00164	98	0669		233								
			85 STD	0300	1801 1765	36579 3651	265		00164	6.7	0834		233								
			BS	0400	1765	36513	265		00104	71	0034		238								
			STD	0500	1705	3639	265		00163	00	0997		236								
		01	85	0500	1705	36385	265	58				15	236								
			STD	0600	1541	3609	26		00150	41	1154		199								
			BS STD	0600 0700	1541 1341	36086 3575	265		00134	0.7	1297		199								
			85	0700	1341	35750	269		00134	0 1	1241		147								
			STD	0800	1120	3542	270		00117	57	1423		084								
			BS	0800	1120	35424	270	9					084								
			STD	0900	0875	3518	273		00094	00	1529		008								
			85 STD	0900 1000	0875 0718	35180 3511	273		00075	3.0	161.		800								
			85	1000	0718	35114	275		00075	39	1614		964								
			5 T O	1100	0580	3505	276		00060	87	1682		925								
			85	1100	0580	35053	276						925								
			STD	1200	0517	3505	277		00053	21	1739		916								
			BS	1200 1300	0517	35054	277		0.005.0		1 70.		916								
			STO BS	1300	0470 0470	3502 35018	277		00050	לכ	1791		913								
			STD	1400	0445	35018	277		00048	94	1840		913								
			95	1400	0445	35008	277		00070	77	1040		920								
			STD	1500	0426	3501	277	79	00047	15	1888		929								
		0.8	BS	1500	0426	35011	277	79				14	929								

														I MAX								
CTRY IO.	SHIP	LATITU	DE LO	AGITUDE ES	MARS DEN SOUARE	STATION TIA	A E	YEAR	CRUISE	RIGINA	ATION	\dashv	DEPTH	DEPTH	OBSI	WAVE ERVATIONS	WEA+	CLOUD		\$TA	TION	
CODE NO.	COOE	•	1/10	· '1/10 0 Z	10" 1"	MO DAY HR	1/10		NO.	NI	UMRER	_	BOTTOM	S'MPL	S DIR	HGT PER SEA	CODE	TYPL AM1		NU	WBER	
31800	7 EV	3400	N 07	316 W	116 43	10 25 1	74	1966		024	+		4480	15	11	3 4	X1	0 3		0	035	
			•		WAT	ER W	IND	BARC)+	R TEM		VIS.	NO.		CIAL							
					COLOR	TRANS. OIR.	OR FORCE	M ETE		RY LB	WET BULB	CODE	OBS. DEPTHS	OBSER	VATIONS							
					DT	50 03	503		6 2	33	267	8	26									
						41,111		1								T.,			W0 W	51 04-51		5
		LCAST NO.	CARD TYPE	QEPTH (m)	1 ,0	s ·/	SIG	T-AN	SPECIFIC	VOLUA PIX-YJ	Ç DY	△ D N. M. 10 ³	VELC		02 ml/l	PO4-P µg = 01/I	101A1-P yg - a1/I	NO3-N no-01/I	NO3-N pg = at/1	1/10 - gu	рΗ	C
	HR 1/10		<u> </u>		 			-			+ ^		+			-						H
	1	1	ST0	0000	2428	3628	24	.55	003	3000	. I	000	15	346		1	- 1		'	1		1 1
	174	4	085	0000	2428	36280		55	000	,,,,,	5 00	,,,,		346								
			STO	0010	2409	3628		61	003	3466	5 00	34		343								
			085	0010	2409	36283		61						343								
	0.0		STO	0020	2397	3629		65	003	312	3 00	067		341								
	00;	2	085 085	0020	2397 2393	36289 36323		65						341								
			510	0030	2400	3642		73	003	2340	0 0	100		345								
			085	0030	2400	36415		73						345								
			085	0040	2417	36480		73						352								
			STD	0050	2386	3652		85	003	129	7 0	163		346								
			085	0050	2386	36516		85		110	- 0			346								
			S10	0075 0075	2050	3667		92	002	118.	، ب	229		267								
			085 085	0075	2050 1998	36674 36686		92						267								
			STD	0100	1955	3667		17	001	889	0.0	279		245								
			085	0100	1955	36671		17			_	-	15	245								
			STO	0125	1912	3666	26	28	001	797	8 0	325		237								
			085	0125	1912	36662		28						237								
			STD	0150	1873	3662		35	001	739	4 0	369		230								
			085	0150 0200	1873 1832	36623 3658		35	0.0.1	686	۷ 0.	455		230								
			STD OBS	0200	1832	36583		42	001	000	0 0	700		226								
			510	0250	1814	3658		46	001	663	0 0	539		229								
			STD	0300	1796	3656		50	001	649	4 0	622		232								
			OBS	0300	1796	36563		50				_		232								
			STD	0400	1759	3650		54	001	642	3 0	786		237								
			085	0400 0500	1759 1704	36498 3639		54	201	626	o n	950		237								
			ST0 085	0500	1704	36386		59	001	020	, ,	, , (235								
			STO	0600	1546	3611		74	001	495	6 1	106		200								
			085	0600	1546	36113	26	74					15	200								
			5T0	0700	1350	3577		90	001	352	8 1	248		150								
			085	0700	1350	35770		90	001	1.70		2 7 6		150								
			STO	0800	1140	3547 35472		709 709	001	178	> I	375		091								
			08S	0800	1140 0911	3521	_	129	000	976	6 1	482		022								
			085	0900	0911	35213		129	000	, , ,	_ 1	52		022								
			510	1000	0711	3507		748	000	772	4 l	570		961								
			OBS	1000	0711	35074		748						961								
			510	1100	0543	3498		763	000	610	3 1	039		909								
			OBS	1100	0543	34980		763	000	E /. 3	0 1	40-		909								
			ST0 085	1200 1200	0489 0489	3499 34987		770 770	000	543	0 1	697		904								
			STO	1300	0489	3500		774	000	505	3 1	749		908								
			085	1300	0459	34998		774	000	- 0 5				908								
			STO	1400	0444	3500	2	776	000	493	9 1	799	14	919								
			085	1400	0444	35000		776						919								
			STD	1500	0436	3501		777	000	489	4 1	848		933								
			OBS	1500	0436	35005	2	777					14	933								

														1	,							
CTRY IO.	SHIP	LATITU	OE LO	NGITUDE E	MARSOEN	STATION TH	A E	YEAR	CRUISE		ATOR'S	\dashv	DEPTH	MAX. OEPTH OF	OBS	WAVE SERVATIONS	WEA-	CLOUD		8.	NOOC	
CODE NO.	CODE	•	1/10	* '1/10 ° Z	10" 1"	MO OAY HE	.1/10		NO.		UMBER		BOTTOM	5'MPL'S	DIR.	HGT PER SEA		TYPE AMT		N	UMBER	
318007	EV	3338	N 01	253 W				1966		025			4718	15	11	2 2	X1	03		- 1	0036	
					COLOR		SPEED	BARG	<i>,</i> • —	R TEN	VET	VIS.	NO. OBS.	SPE	CIAL							
					COLOR	TRANS. DIR.	SPÉED OR FORCE	(mbs			BULB	CODE	DEPTHS	OBSERV	ZHOITA							
					DT	50 03	503	14	6 24	+0	220	8	27									
	MESSENGR TIME 0	CAST	CARD	OEPTH (m)	1 °C	s °/	SIGA	MA-T	SPECIFIC	VOLUA	ME Z	△ 0 N. M 10 ³	sou	סאנ	02 ml/l	PO4-P T	OTAL-P	NO2-N	NO3-N	\$1 O4-\$i	рН	S
	HR 1/10	NO.	TYPE				-		ANOMA	LY-X10	, x	103	VELC	OCITY		μg • et/1	µg = a1/1	μg ~ at/l	yg - al/l	yg - a1/1	971	č
													1					- 1	1			
	214		STO	0000	2509 2509	3647 36467	24	44	0034	497	9 0	000		367								
	214		510	0010	2503	3647		46	0034	483.	8 0	035		367 367								
			oBs	0010	2503	36468		46	003			- , ,		367								
			STO	0020	2499	3648		48	0034	+67	6 0	0 70		368								
	002		OBS	0020	2499	36480		48						368								
			OBS	0025	2499	36486		49	000		_ ^	101		369								
			510 085	0030	2499 2499	3650 36495		49	0034	+61	0 0	104		370 370								
			STD	0050	2500	3653		52	0034	445	5 0	173		374								
			OBS	0050	2500	36532	_	52	003		, ,	- 1 -		374								
			OBS	0064	2504	36560		53						377								
			STO	0075	2279	3067	25	28	002	730	4 0	251	. 15	326								
			OBS	0075	2279	36670		28						326								
			OBS	0090	2141	36684		68	003	170				293								
			STD	0100	2070	3668 36682		87	002	1/3	6 0	312		276								
			OBS STD	0125	1952	3664	25	16	001	914	5 0	363		276								
			OBS	0125	1952	36638		16	001	, 1 4	, ,	- 0 -		248								
			STD	0150	1899	3665		30	001	7ь5	7 0	409		237								
			085	0150	1899	36647		30						237								
			STO	0200	1839	3663		44	001	571	7 0	496		228								
			085 ST0	0200	1839 1822	36627 3662		44	001	<i>(</i> - 2	2 3	E 70		228								
			STO	0300	1805	3661		51	001			579 661		232								
			085	0300	1805	36610		51	001	00,	•	001		235								
			STO	0400	1771	3654	26	54	001	539	1 0	825		241								
			OBS	0400	1771	36542		54						241								
			STD	0500	1719	3644		59	001	623	1 0	988		241								
			065 085	0500 0560	1719 1707	36440 36432		59 51						241								
			STO	0600	1620	3623		66	001	577	6 1	148		247								
			085	0600	1620	36230		66	001.	- , ,	_ 1	- +0		225								
			STD	0700	1429	3590		84	0014	424	5 1	298		177								
			OBS	0700	1429	35900		84						177								
			STD	0800	1211	3560		35	001	220	3 1	430		117								
			085	0800	1211	35603		05	0.0.1					117								
			STD OBS	0900 0900	1007 1007	3534 35335		22	001	000	9 1	544		059								
			STO	1000	0790	3515	_	43	0000	341	5 1	639		992								
			OBS	1000	0790	35149		43			•			992								
			STD	1100	C650	35∪9		58	000	682	1 1	715		953								
			085	1100	0650	35092		58				7.		953								
			ST0 085	1200 1200	0573 0573	3510 35100		69	000	77	3 1	778		940								
			STO	1300	0515	3509		75	000	518	3 1	833		940								
			ORS	1300	0519	35093		75	000.	- 1 3		J J J		934								
			STO	1400	0489	3509		78	000	487	5 1	863		939								
			OBS	1400	0489	35∨93		78					14	939								
			STD	1500	0465	3509		81	000	464	9 1	931		946								
			OBS	1500	0465	35093	27	81					14	946								

	10.	SHIP	LATITU	DE LON	IGITUDE LEGITOR	MARSDEN SOUARE	STATION TIN	AE YEAR	ORIGIN CRUISE S	TATION		DEPTH DEPTH	OBS	WAVE ERVATIONS	WEA- THER	CODES		STA	OOC	
ODE	NO.		•	1/10			MO DAY HE		NO. N	UMBER	-	S'MPL		HGT PER SEA	CODE	TYPE AMT		NU	MABER	
3 1 8	007	EV	3314	N 07	213 W	116 32 WAT	10 26 0	18 1966	O AIR TEM		5	212 33	06	0 2	XI	013	1	1 0	0037	
						COLOR	TRANS. DIR	SPEED MAET	ER DRY	WET		Ago, Vaces.	ECIAL VATIONS							
							(tan)	FORCE (mb		BULB		rins .								
	ſ					DT	SD 07	507 14	6 250	228	8	31		1						\neg
	i	MESSENGR TIME C HR 1/10	CAST NO.	TYPE	OEPTH (m)	T *C	s */	SIG M A -T	SPECIFIC VOLU-	ME DYN	1. M. 10 ³	VELOCITY	O ₂ ml/l	PO ₄ =P µg = 01/I	TOTA L-P µg = 01/1	NO3-N	NO3-N	\$1 O4=\$1 yg = a1/I	рΗ	C
				STD	0000	2509	3647	2444	003497	9 00	00	15367								
		018	3	OBS	0000	2509	36467	2444	003.77	, ,		15367								
				STD OBS	0010	2486 2486	3648	2452	003426	5 00	35	15363								
				STD	0020	2484	36479 3648	2452 2453	003421	9 00	69	15363								
		002	2	OBS	0020	2484	36483	2453				15364								
				OBS	0025	2484	36483	2453	003/3/	0 01	0.7	15365								
				STD	0030 0030	2484 2484	3648 36483	2453 2453	003426	0 01	03	15366								
				STD	0050	2484	3649	2453	003430	6 01	.72	15369								
				OBS	0050	2484	36488	2453				15369								
				OBS STD	0065 0075	2486 2326	36497 3662	2454 2511	002894	4 00	51	15372								
				085	0075	2326	36623	2511	002094	5 02	. 11	15337 15337								
				SIO	0100	2088	3670	2584	002207	3 03	15	15281								
				08S ST0	0100 0125	2088 1981	36700	2584	001043	, 03		15281								
				085	0125	1981	3670 36700	2613 2613	001942	4 03	66	15257 15257								
				STD	0150	1923	3669	2627	001812	4 04	13	15245								
				085	0150	1923	36692	2627	001710	2 04		15245								
				STD OBS	0200 0200	1859 1859	36638	2639 2639	001712	2 05	01	15234								
				STD	0250	1832	3662	2645	001677	4 05	86	15234								
				STD	0300	1807	3659	2649	001657	0 00	70	15235								
				08S STD	0300 0400	1807 1 76 0	36589 3651	2649 2654	001638	0 08	134	15235 15237								
				OBS	0400	1760	36506	2654	001030	9 00	134	15237								
				STD	0500	1711	3642	2659	001618	7 09	97	15238								
				OBS	0500	1711	36420	2659			_	15238								
				STD OBS	0600 0600	1622 1622	3626 36260	2668 2668	001560	5 11	56	15226								
				STD	0700	1449	3589	2679	001475	2 13	08	15183								
				OBS	0700	1449	35889	2679				15183								
				STD 085	0800	1232 1232	3563 35628	2703 2703	001243	5 14	44	15125 15125								
				SID	0900	1010	3535	2722	001053	6 15	59	15060								
				oBs	0900	1010	35345	2722				15060								
				STD OBS	1000 1000	0806 0806	3514 35143	2740	000871	7 16	55	14998								
				STD	1100	0651	35143	2740 2758	000683	6 17	33	14998								
				085	1100	0651	35092	2758				14954								
		021		085	1178	0573	35043	2764	00067		0.5	14935								
				STD OBS	1200 1200	0563 0563	3509 35089	2769 2769	000571	0 17	95	14935								
				STD	1300	0513	3509	2775	000512	6 18	50	14932								
				OBS	1300	0513	35089	2775				14932								
				STD 085	1400 1400	0479 0479	3508 35084	2779 2779	000480	3 18	99	14935								
				STD	1500	0479	35084	2782	000455	1 19	46	14935								
				OBS	1500	0451	35080	2782		-		14940								
		021		OBS	T1675	0420	35001	2779				14955								
				STD STD	1750 2000	0416 0399	3500	2779	000489		64	14966								
		021		OBS	T2174	0384	3499 3488P	2780 2773P	000495	1 21	87	15001								
				STD	2500	0347	3498	2785	000467	2 24	28	15065								
		021		OBS	T2674	0330	34969	2785	0.0.6			15087								
		021		STD 085	3000 T3224	0301 0287	3496 34944	2787 2787	000446	4 26	56	15131								
		021		OBS	3324	0282	34937	2787				15179								

TABLE IV .- Continued

																1				,				
REFERENCE CIRY ID.	SHIP	LATITU	DE	LONGITUDE	NUFF DCTR	MARSOEH SQUARE	STATIO	ON TIME		YEAR	CRUISE		TATION	-	DEPTH	OEPTH	OBS	WAVE SERVATIONS	WEA-	CLOUG		2	NOOC TATION	
CODE NO.	COOE	•	1/10	* 1/10	N DIE	10* 1*	MO D	AY HR,1			NO.		UMBER		BOTTON	S,W br.	l	HGT PER SEA	CODE	TYPE AMT		N	UMBER	
318007	EV	3254	- Ni	07136 W	1	116 21	10 2	6 07	5 1	966		02	7		5303	15	06	2 2	X 2	03			0038	
						-	TER	WIN		BARO			AP. ℃	VIS.	NO.	SPE	CIAL							
						COLOR	TRANS.	OIR.	PEED OR ORCE	(mbs)		RY JLB	WET	CODE	OBS. OBSTHS	OBSERV	Z MOIT A							
						DT	50		0.5	125	5 2	56	233	7	27									
	MESSENGR		CARE				1	—т		-	SPECIFIC		≤	Δp	T	UND		PO4-P						1
	TIME o	NO.	TYPE		(m 1	T *C	2 .	4.	SIGM	A-T	ANOM	VOLUA ALY—X10	DY	△ D N, M, 10 ³	· VET	OCITY	O 2 m1/1	yg - al/l	TOTAL-P	NO2-H μg - αI/I	NO3-N Vg - 01/I	Si O4→Si yg - al/!	pН	ć
	7710				-		-							_	_			1	-					+
	1	i	ST	D 000	0 '	2459	363	3	244	9	003	449	5 0	000	1 15	354		1	'	1	')	1.
	075	5	OBS			2459	363		244							354								
			SI			2459	363 363		244		003	462	9 0	35		355								
			0BS			2459 2447	363		244		003	431	8 0	069		355								
	002	2	089			2447	363		245		000	771	0 0	, ,		354								
			OBS			2441	363		245						1.5	353								
			51			2440	363		245	-	003	411	4 0	103		354								
			083 S1			2440 2437	363 363		245		003	405	9 0	171		354								
			OBS			2437	363		245		003	,	, ,	- , .		357								
			085			2429	363	34	245							356								
			51			2146	366		256		002	371	7 0	244		292								
			0BS			2146	366 366		256		002	n 3 a.	, n	299		292								
			085			2012	366		260		002	.ور ن	4 0	<u> </u>		261								
			ST			1942	366		262		001	875	1 0	348		245								
			OBS			1942	366		262							245								
			ST 085			1899 1899	366 366		263		001	784	2 0	393		237								
			ST			1838	366		264		001	674	3 04	+80		228								
			OBS	020	10	1838	366		264							228								
			5 1			1823	366		264		001			563		232								
			51 085			1806	366 366		265		001	646	6 0	546		235								
			ST			1769	365		265		001	641	5 a	B10		235								
			OBS			1769	365		265				-	0		240								
			51			1717	364	3	265	59	001	622	7 0	973	1.5	240								
			085			1717	364		265					١		240								
			S1 089			1579 1579	361 361		267		001	235	4 1	131		211								
			ST			1319	357		269		001	310	9 1	273		139								
			085	070	0	1319	357	40	269	4					15	139								
			089			1160	354		270			3 / 5	-	3.0		090								
			\$1 08s			1092 1092	354 353		271		001	141	(1	396		073								
			51			0980	352		272		001	0621	0 1	06		048								
			OBS	090	0	0980	352	60	272	1						048								
			OBS			0935	352		272							043								
			51 085			0860	352 352		273		000	909	6 1	05		019								
			ST			0665	351		275		000	b72	4 1	584		960								
			OBS			0665	351		275		000	J . L.	. 1	- 0 -		960								
			ST			0568	351	0	277	70	000	567	9 1	746		938								
			OBS			0568	351		277		0.0.					938								
			S1 085			0520 0520	350 350		277		000	520	9 1	300		935								
			ST	D 140		0481	350		277		000	400	1 1	350		935								
			OBS	140	0	0481	350		277							935								
			ST			0460	350		278		000	469	7 1	398	14	943								
			089	150	Ü	0460	350	77	278	0					1 4	943								

TABLE IV .-- Continued

	CE D.	SHIP	LATITU		ONGITUDE EDO	sa	RSDEN	1	ION TI	1	EAR	CRUISI		ITAT MUN	ON	DEPTH TO BOTTON	M AX DEPTI	H DBS	WAVE SERVATION:	000	R CODI	5	N ST	IDDC ATION UMBER	
-	0.	Ev	3234	1/10	7121 W	10			26 I		965	+	02	_	BCX	5303	3 MILL		HGT PER	X					
100	70 1	-4	2234	N I O	,,151 M	11	WAT			IND		1	AIR TEA		£	NO.	т' —		2 2	\	1 0	2	- 1	0039	
							COLDR	TRANS.	DIR.	SPEED	METE	ER	DRY	w	ET CODI		O ACCA	ECIAL VATIONS							
							OT	5D		FORCE	(mb1	_	BULB	BU											
	г					1	UI	20	14	505	11	9 4	261	- 4	44 7	25				T	1				
		MESSENGR TIME C HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)		7 °C	S	٠/	SIGMA	1-1	SPECIFI	C VOLU	M E 0.7	∑ ∆ D DYN, M x 10 ³	. SD	UND OCITY	02 ml/l	PD 4-P µg - 01/I	TOTAL-			SI O4-Si ug - a1/1	pH	S C C
	r					-															1	1			11
	'			STO			2479	36		244		00	3474	1	0000		359	'			•	•			
		109	5	085	0000		2479		379	244			2//0		00.75		359								
				ST0	0010		2479 2479	36	393	244		00.	3468	Ţ	0035		361								
				510			2479	36		244		00	3469	3	0069		362								
		002	2	OBS	0020		2479		397	244							362								
				085	0025		2479		405	244		00'	7 4 4 1	_	010		363								
				STD	0030		2479 2479	36 36	413	244		00.	3461	9	0104		364								
				SID			2476	36		245		00:	3461	4	0173		367								
				OBS	0050		2476		413	245							367								
				082	0060		2476		413	245				_			368								
				ST0 085	0075		2219	36	63 631	254 254		00.	2595	0	0249		310								
				STD			2049	36		259		002	2113	6	0308		271								
				OBS	0100		2049		690	259				•			271								
				STD			1930	36		262		00	1836	6	0357		242								
				OBS	0125		1930		670	262			750	_	0.00		242								
				510 085	0150		1888	36	647	263 263		00.	1758	1	0402		234								
				510			1844	36		264		00.	1684	5	0488		230								
				OBS	0200		1844		626	264							230								
				STO			1826	36		264			1662		0272		233								
				STD OBS	0300		1808	36	61 607	265 265		001	1646	4	0655		236								
				STD			1770	36		265		001	1042	5	0619		240								
				085	0400		1770		534	265							240								
				STD	0500 0500		1720	36		265		001	1626	2	0983		241								
				STD			1720 1613	36	439	265 266		001	1566	0	1142		222								
				OBS	0600		1613		224	266		00.	1000	•	1142		222								
				STD			1405	35	85	268	5	001	407	6	1291	15	169								
				OBS	0700		1405		853	268		000	121-	0	1/: 30		169								
				STD 085	0800		1190 1190	35 35	550 550	270 270		00	1217	В	1422		110								
				STD			0940	35		272		000	975	4	1532		034								
				085	0900		0940		283	272							034								
				STO			0762	35		274		000	0802	0	1621		981								
				OBS	1000		0762		142	274		0.00	3663	,	140		981								
				STD OBS	1100		0635 0635	35	09 089	276 276		000	0662	1	1694		947								
				SID			0542	35		275		000)541	3	1754		927								
				OBS	1200		0542		089	277							927								
				STD			0511	35		277		000	0501	0	1806		931								
				085 510	1300 1400		0511 0479	35 35	101	277		000)483	2	1865		931								
				085	1400		0479		U80	277		000	,403	2	1855		935								
				STD			0452	35		278		000	0462	3	1903		940								
				085	1500		0452	35	072	278	1					1 4	940								

REFERENCE				-	MARSOEH	STATION TI	ME		T 0	RIGINA	TOR'S	_	DEPTH	MAX		WAVE	WEA-	CLOUO	Г		200	
CTRY IO.	CODE	LATITU		NGITUOE TOUR	SOUARE	IG MT)		YEAR	CRUISE NO.		A TION J M BER		TO BOTTOM	OEPTH	00.	ERVATIONS	THER	CODES		ST.	ATION	
CODE NO.		2215	1/10	1710		MO DAY H		1066	1	_		-	5349	3 74.1 6	-	HGT PER SEA	-	TYPE AMI				
31 8007	7 EV	3215	иТо	7053 w	116 20 WAT		146	1966		029				-		2 2	X 1	013	ı	1 '	0040	
					COLOR	TRANS, CUR	SPEED		ER O	RY	WET	CODE	NO. OBS. OEPTHS		LAIDS VATIONS							
					COOE	[m]	FORC		_		8018	<u> </u>										
		,—			DT	SD 23	506	5 13	32 2	67	256	7	25									
	MESSENGE TIME	CAST NO.	CARD TYPE	OEPTH (m)	т °С	s ·/	SIG	MA-T	SPECIFIC	VOLUM	F SY	△ 0 N. M 10 ³	. SOL	DOITY	O2 m1/l	PO4-P pg - 01/1	101AL-P	NO2-N µg - ot/l	NO3~N µg - ot/l	\$1 O4-\$i vg - 01/1	pН	C
	HR 1/10			-			-				+-'	10"	-			170	-		,,			+
		1	STD	0000	2436	3633	2 /	456	003	3851	, I	000	1 15	348	l	1 1	- 1	1		'		
	14	6	085	0000	2436	36330		+56	003	202	, 0	•		348								
			STO	0010	2432	3632		+56	003	385	5 0	034	15	349								
			OBS	0010	2432	36320	24	456						349								
			STD	0020	2417	3629		+59	003	3698	9 0	068		346								
	0.0	2	OBS	0020	2417	36288		459						346								
			085	0025	2417	36288		459	002	271		101		347								
			STD	0030	2416 2416	3629 36288		459 459	003	3710	0	101		348								
			085 STD	0050	2416	3629		459 459	003	379	7 Ω	169		351								
			085	0050	2416	36287		459	003	,		-0,		351								
			085	0065	2414	36288		459						353								
			STD	0075	2249	3662	2:	533	002	6844	4 0	245	15	318								
			085	0075	2249	36620	2 !	533						318								
			STD	0100	2015	3669		603	002	028	7 0	304		262								
			085	0100	2015	36687		603				_		262								
			STD	0125	1916	3666		626	001	8099	9 0	352		238								
			085	0125	1916	36659		626	001	7, ,		200		238								
			STD	0150 0150	1877 1877	3663 36633		635 635	001	741	9 0	396		231								
			OBS STD	0200	1839	3666		646	001	648!	5 0	481		229								
			085	0200	1839	36659		646	001	040.	, ,	. 0 ,		229								
			STD	0250	1823	3663		648	001	648	4 0	563		232								
			STD	0300	1808	3660	2	650	001	649		646		236								
			oas	0300	1808	36603		650						236								
			STD	0400	1783	3657		653	001	650	4 0	811		244								
			085	0400	1783	36566		653	0 - 1					244								
			STD	0500	1729	3646 36455		658	001	635	8 0	975		244								
			08S STD	0500 0600	1729 1606	3622		658 669	201	553	7 1	134		244								
			085	0600	1606	36219		669	001	,,,	, 1	134		220								
			STD	0700	1401	3588		688	001	380	3 1	481		168								
			OBS	0700	1401	35879		688	501					168								
			SID	0800	1173	3552		706	001	206	0 1	410		103								
			OBS	0800	1173	35521		706						103								
			SID	0900	0925	3526		730	000	966	3 1	219		028								
			065	0900	0925	35260		730						028								
			STD		0748	3512		747	000	7961	0 1	607		+976								
			OBS	1000	0748	35120		747	000	453	2 1	50		976								
			ST0 085	1100	0638	3511 35107		761 761	000	653	1 د	68(+949 +949								
			STO		0548	35107		772	000	542	4 1	739		1949								
			085	1200	0548	35099		772	000	J-72.	. 1	, ,		929								
			STD		0499	3509		777	000	491	0 1	79:		+926								
			085	1300	0499	35092	2	777					14	+926								
			STO		0477	3509		779	000	476	0 1	839		934								
			085	1400	0477	35086		779						+934								
			STO		0453	3508		781	000	457	8 1	086		+941								
			085	1500	0453	35080	2	781					14	941								

ID. ND.	SHIP CODE	LATITU	DE 1/10	LON	GITUDE NOCTA	MARS SQU	ARE	STATI	DN TU		YEAR	CRUIS NO.	ORIGINA SE S	TATI	ON	DEPTH TO BDTTDA	MAX. DEPTH OF S'MPL'	085	WAVE ERVATIONS	CD	ER	CLOUD CDDES		ST	ODC ATION IMBER	
8007	Ē٧	3157	N N	07	022 W	116	10	10	26 1	78 1	966		03	С		5400	15	23	2 4	Х	1	0 3			0041	
					, ,	- 1	WA	TER	w	IND	BARG	5	AIR TEA	WP. 1	C VIS.	NO.	Spi	CIAL							, 0 . 2	
							CDLOR CDDE	TRANS.	DIR,	SPEED	M ETS	R	DRY SULS	BU	ET COD	DBS. DEPTHS	COCCON	ZATIONS								
							DT	50	24	S10	12		272		61 7	24										
ſ								1 30	24	310	12															\neg
	MESSENGR TIME HR 1/10	CAST OF NO.	CAR		DEPTH (m)	T	°C	5	٠/٠.	SIGM	A-T	ANO	MALY-XI	ME 02	₹ △ D DYN. M x 10 ³	. AET	OCITY	D ₂ ml/l	PO4-P µg - 01/L	PG - 6	-P 1	NO2-N µg - 01/1	NO3-N NO3-N	SI D4-Si pg - o1/1	ρН	ç
			_	[0000	,	. 7/	1	- ,	١			24.00		0000		255									
	178	R.	OB	TD '	0000		476 476	36.	356	244		00	3482	U	0000		358 358									
	110			TD.	0010		474	36		244		0.0	3486	8	0035		359									
			08		0010		474		347	244				•	000		359									
			S	TD	0020	2	480	36	40	240	+8	00	3470	1	0070	15	363									
	002	2	OB		0020	2	480	36	400	244	48					15	363									
			08		0025		490		460	245							366									
				TD	0030		489	36		245		00	3457	1	0104		367									
			06	5 TD	0030		489	36	460	245		0.0	3453		0173		367									
			OB		0050		478		432	245		00	3473	,	0172		367									
				TD	0075		198	36		255		0.0	2524	7	0248		305									
			08		0075		198		650	255					0		305									
			S	TD	0100	2	010	36	59	260) 4	00	2016	0	0309	1.5	260									
			08		0100		010		587	260							260									
				TO	0125		939	36		262		00	1855	3	0353		245									
			OB		0125		939		575	262		0.0	175,	^	0300		245									
			OB	TD	0150 0150		887	36	550 550	263		00	1754	J	0398		234									
				TD	0200		841	36		264		0.0	1681	6	0484		229									
			08		0200		841		520	264		00	1001		0.0-		229									
				TD	0250	1	823	36	51	264		00	1662	9	0568		232									
				TO	0300		806	36		265	50	00	1648	8	0651	. 15	235									
			ОВ		0300		806		597	265							235									
				TD	0400		775	36		265		00	1650	0	0016		242									
			09	S T0	0400 0500		775 721	36	540	265		0.0	1422	1	0980		242									
			08		0500		721		434	265		00	1632	7	0980		241									
				TO	0600		605	36		266		0.0	1583	g	1141		219									
			OB		0600		605		174	266		00	1203	,	114,		219									
				TD	0700		371	35		268		00	1373	9	1288		157									
			08		0700		371		801	268							157									
			S	TD	0800	1	118	35	46	271		00	1146	5	1414	15	083									
			08		0800		118		459	271							083									
				TD	0900		907	35		273		00	0955	2	1520		021									
			OB	S TD	0900 1000		739	35	233	27:		0.0	07-1	_	1600		150									
			OB		1000		739		148	275		00	0701)	1605		974									
				TD	1100		603	35		276		0.0	0621	9	1675		935									
			OB		1100		603		080	276			0011	_	10,1		935									
			S	TD	1200		537	35		27		00	0540	9	1733		925									
			08	S	1200		537	350	080	27						14	925									
				ΤO	1300		500	35		27		00	0490	1	1784		927									
			ОВ		1300		500		095	27							927									
				TD	1400		480	35		27		00	0477	2	1833		+935									
			06		1400		480		090	27							935									
				TD	1500		441	35		278		00	0452	3	1879		935									
			OB	5	1500	0	441	35	065	278	52					1 4	935									

TABLE IV .- Continued

									,										,			
REFERENCE	SHIP	LATITU	05 10	NGITUOE TO	MARSOEN	STATION TI	WE	YEAR	—		ATOR'S		OEPTH	DEFI		WAVE	WEA- THER	CLOUG			NOOC	
CODE NO.	COOE	•	1/10	NGITUOE 30UTIDNG		MO DAY H	R.1/10	1400	CRUISE NO.	N S	TATION IUMBER		BOTTON	A S'MPL		HGT PER SE	0000	TYPE AM	-		NUMBER	
318007	EV	3156	_	6909 W			18	1966		03	1		5121	1 19			X1	0 3	-		0042	
11	1		,		WAT		INO	BAR		IR TEA		Т		1		- -	1	013	1	- 1	0042	'
					COLOR	TRANS. OIR.	SPEED	M ETI	ER C	RY	WET	COD!	NO. OBS. OEPTHS	Caseen	ECIAL VATIONS							
					COOL	fm1 0.10	FORC	(mbi	_	JLE	8018	-	-	1								
				,	DT	50 26	510	14	2 2	72	217		25									_
	MESSEN GR	CAST NO.	CARD	OEPTH (m)	τ ℃	s °/	SIG	T-AN	SPECIFIC	VOLU/	M£ ₹	∆ 0 yn. M x 10 ³	SO	OCITY	O2 ml/	PO4-P	TOTAL-P	NO2-N	NO3-N	5104-5		Š
	HR 1/10	[1175				_				1	X 10 ³	V	.00111		yg = a1/1	µg = 01/1	µg ~ q1/1	yg - a1/l	yg = 01/	1	C
					35.00	2640				- 30	. _		١,,			1 1					1	11
	018	2	STD OBS	0000	2540 2540	3648 36480		36 36	003	579	4 (000		374 374								
	010	_	STO	0010	2540	3648		36	003	583	5 0	036		5376								
			OBS	0010	2540	36480		36						376								
			STD	0020	2540	3650	24	37	003	573	2 0	072	1 1 2	378								
	00;	2	oBs	0020	2540	36500		37						378								
			OBS	0025	2542	36520		38	007	5 / 0		107		379								
			STD OBS	0030	2550 2550	3658 36580		40 40	003	549	ن د	107		383								
			STD	0050	2553	3663		43	003	530	5 0	178		387								
			OBS	0050	2553	36630		43	003					387								
			OBS	0060	2360	36769		12						5345								
			STD	0075	2210	3674		53	002	492	1 0	253		309								
			OBS STO	0075 0100	2210 2049	36740 3666		53 91	002	135	2 0	11 ك		309								
			OBS	0100	2049	36660		91	002	100	5 0	211		5270								
			STD	0125	1981	3665		09	001	975	7 0	363		5256								
			OBS	0125	1981	36654	26	09						256								
			STO	0150	1919	3666		26	001	825	6 0	410		5243								
			OBS	0150	1919	36660		26	1	77.				243								
			STD OBS	0200 0200	1849 1849	3659 36591		38 38	001	721	9 0	499		231								
			510	0250	1825	3658		44	001	689	4 0	584		231								
			STD	0300	1802	3656		4B		665		668		233								
			OBS	0300	1802	36560		48						233								
			STD	0400	1759	3649		53	001	651	0 0	834		236								
			OBS	0400 0500	1759 1701	36486		53	001			000		236								
			STD OBS	0500	1701	3638 36379		59 59	001	624	9 0	998		234								
			STD	0600	1581	3615		69	001	550	0 1	156		5212								
			OBS	0600	1581	36146		69						212								
			STD	0700	1360	3578		89	001	363	3 1	302		153								
			OBS STD	0700 0800	1360 1139	35784 3549		89	001	1 (2	, ,	4.20		153								
			0B5	0800	1139	3549	27	10	001	162	1 1	428		091								
			STD	0900	0898	3522		31	000	950	9 1	534		017								
			OBS	0900	0898	35218	27				_			017								
			STD	1000	0722	3512		50	000	759	3 1	619	14	965								
			OBS	1000	0722	35115		50	0.5		0			965								
			STD	1100 1100	0612 0612	3509 35085		63 63	000	631	3 1	689		938								
			STO	1200	0550	3510		71	0.00	546	7 1	748		938								
			OBS	1200	0550	35097	27					. +0		930								
			STO	1300	0516	3509		75	000	514	6 1	801		933								
			OBS	1300	0516	35092	27							933								
			STD OBS	1400 1400	0484 0484	3509		79	000	482	8 1	851		937								
			\$10	1500	0454	35090 3507		79 80	000	469	4 1	898		937								
			OBS	1500	0454	35066		80	000	, ,	. 1	2,70		941								
														,								

IO.	COOE	LATIT		NGITUDE SOUTION	MARSOEN SOUARE	STATION IGMT		FEAR C	ORIGINA RUISE ST NO. NO	TOR'S ATION J MBER		TO OTTOM S'MP	Н ОВ!	WAVE SERVATIONS	0.01	ER CODE	S	STA	ODC ATION IMBER
+	= = 1/	215	1/10 5 N O			10 27		07.6	032		+	2 14(5		2 3					2012
1800	7 EV	315	5 N 0	6803 W	TID ID		075 1	966	AIR TEM				5 24	12[3]	l x	1 013	5 [1 (0043
					COLOR		SPEED	BARO+ METER	ORY		/15.	OBS. OBSE	PECIAL RVATIONS						
					CODE	trans. OIR	FORCE	(mbs)	BULB	SULB	٥	DEPTHS							
					DT	SD 25	510	125	261	239	7	24							
	MESSEN	OF NO.	CARD TYPE	DEPTH (m)	7 ℃	s */	SIGM	A-T 5	PECIFIC VOLUM	E ₹ △ DYN. X 1	D M.	SOUND	O ₂ ml/l	PO4-P ug = 01/1	TOTAL-		NO3-N ug - at/l	\$1 O4~\$i µg = a1/1	ρН
	HR 3/1	10	-				+			+									
	1	- 1	STO	0000	2580	3646	242	22	0037120	່ວວ	00	15383	1	1	ı	1	1	'	
	0	75	OBS	0000	2580	36460						15383							
			STD	0010	2580	3646	242	2 2	003716	00	37	15385							
			OBS	0010	2580	36460	242	2.2				15385							
			STD	0020	2580	3646	242		0037203	3 00	74	15386							
	0	02	085	0020	2580	36460						15386							
			OBS	0025	2580	36460			00070			15387							
			STD	0030	2580	3646	242		0037244	01	12	15388							
			OBS	0030	2580 2582	36460			0036848	3 01	9.4	15388 15393							
			STD	0050	2582	3654 3653!	242 242		0030040	0 1	00	15393							
			D8S STD	0075	2330	3671	251		0028414	4 02	67	15333							
			085	0075	2330	3671			202041	. 02	U I	15339							
			STD	0100	2128	3672	257		0022976	5 03	3 1	15292							
			085	0100	2128	36720			002271	, 0-		15292							
			510	0125	2011	3671	260		0020149	9 03	85	15265							
			OBS	0125	2011	3670				~		15265							
			STD	0150	1930	3668	262		0018370	0 4	34	15246							
			085	0150	1930	3668						15246							
			STD	0200	1851	3663	264	+ 1	0016978	3 05	22	15232							
			085	0200	1851	3663	264	+1				15232							
			STD	0250	1828	3662	264	+6	001667	7 06	06	15233							
			STD	0300	1809	3660	264	• 9	001653	8 06	89	15236							
			OBS	0300	1809	3660	264	+9				15236							
			STD	0400	1780	3655	265		001656	9 08	55	15243							
			085	0400	1780	3654						15243							
			STD	0500	1719	3643	265		0016339	9 10	19	15240							
			OBS	0500	1719	3642					7.0	15240							
			STD	0600	1603	3620	266		001561	3 11	79	15219							
			085	0600	1603	3619			001374	. 14	7.4	15219							
			STD 085	0700 0700	1399 1399	3588 3588	268 268		001374	2 13	26	15167 15167							
			ST0	0800	1179	3554	270		001205	2 14	55	15106							
			085	0800	1179	3553			001203	_ 14	,,	15106							
			STD		0934	3526	272		000981	8 15	64	15031							
			085	0900	0934	3526			000701		J-1	15031							
			510		0741	3513	274		000775	6 16	52	14973							
			085	1000	0741	3513					_	14973							
			STD		0606	3510	276		000610	9 17	21	14936							
			085	1100	0606	3510						14936							
			STD		0537	3509	27		000536	5 17	79	14925							
			OBS	1200	0537	3508						14925							
			STD		0495	3508	277		000494	2 18	30	14924	+						
			OBS	1300	0495	3508	271	77				14924	•						
			STD		0469	3508	277		000470	9 18	78	14930							
			OBS	1400	0469	3507						14930							
			STD		0448	3507	278		000460	5 19	25	14938							
			085	1500	0448	3506	7 278	31				14938	3						

No. Sol 10 10 10 10 10 10 10 1	ERENCE	SHIP				MARSOEN SOUARE	STATION	TIME	TEAR		ORIGINA			OEPTH			WAVE ERVATIONS	WE.			N	ODC	
	10, NO,		LATITU		NGITUDE E				TEAR			ATION BEM U	R E		. OF	1 000		1 000		1	N I	JMSER	
		FV	3155						1966		-			4938			_	-				2044	
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						COLOR	TRANS. OIS	SPEED	MET	ER (DRY	WET	COOE	085.	OBCCO.	VATIONS							
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STO 000 2500 3644 2445 0034933 0000 15364			CAST NO.	CARO TYPE	OEPTH (m)	7 °C	s */	SIG	MA-T	SPECIFIC	VOLUM	AE	₹ Δ O DYN, M.			O2 ml/l			P NO2-N		SI O4-Si Pg - ql/I	ρН	SCC
131		HR 1/10						-				-	X 10	+			 		-	-			+
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REFERENCE	SHIP			GITUGE ES	MAR	OEN	STATIC	N TIA		YEAR	ORIGIN.			OEPTH TO	DEPTH		WAVE ERVATIONS	WEA-	CLOUG			NOOC	
CODE NO.	COOE	LATITU		GITUOE SOL				Y HR		TEAK		TATIO		MOTTOM	OF S'MPL	l .	HGT PER SE		TYPE AM	1		UMBER	
1101			1/10		10°																		
31 800	7 EV	3154	M 06	543 W	115		10 2			966	03		- 14	+755	10	24	2 4	X1	013	ı	1	0045	
						WAT	-	W	SPEED	BARC			- VIS.	NO. OBS.	SP	ECIAL							
						COLOS	TRANS,	OIR,	FORCE	METE		RULE		DEPTHS	OBSER	VA TION S							
						DT	SD	21	512	14		23	9 7	21									
					_	01	_ JU	21	312	1 4	0 250	_		7	-		1						\neg
	MESSENGR TIME	CAST	CARO	OEPTH (m)	ı	℃	ς •	/ . .	SIGM	1-A	SPECIFIC VOLU		₹ Δ D OYN. M.	20F	OULL	02 ml/l	PO4-P	TOTAL-P	NO2-N	NO ₃ -N	SI O4-Si	рН	č
	HR 1/10	Ī 10.	ITPE	<u> </u>	L.						Anomaci-A		X 10 ³	VELC	JUIT		yg = 01/1	μg - σt/l	ng - 01/1	yg - al/l	yg - a1/l		19
	'		STD	0000	2	519	362	6	242	26	003673	2	0000	15	367								
	18	7	OBS	0000		519	362		242						367								
			STD	0010		515	362		242		003674	3	0037		367								
			OBS	0010		515	362		242						367								
	0.0	,	STD	0020		504	362		243		003637	6	0073		367								
	00	I	OBS	0020		504	362		243						367								
			OBS STD	0025		503	362 362		243		003634	5	0110		367 368								
			085	0030		502	362		243		003034	.)	0110		368								
			STD	0050		502	363		243		003609	16	0182		372								
			085	0050		502	363		243		003009		0102		372								
			STD	0075		443	366		247		003234	. 7	0268		365								
			OBS	0075		443	366		24		00 22 34	'	0-00		365								
			STD	0100		070	366	-	258		002191	6	0335		276								
			OBS	0100		070	366		258						276								
			STD	0125		912	365		262		001850	16	0386		236								
			OBS	0125	1	912	365	89	262	2.2					236								
			OBS	0139	1	847	365	77	26.	38				15	220								
			STD	0150	1	841	365	8	26:	39	001695	1	0430	15	220								
			085	0150		.841	365		26						220								
			STD	0200		.829	365		264		001687	7.4	0 > 15		225								
			OBS	0200		.829	365		26						225								
			STD	0250		.797	365		264		001658		0299		223								
			STD	0300		770	365		265		001633	8 8	0681		223								
			OBS	0300		770	364		265		001/01	-	221.		223								
			STD	0400		730	364		26		001621	.)	0844		227								
			OBS	0400 0500		.730	364 363		265		001615	. 4	1005		227								
			ST0 OBS	0500		679	363				001615	,0	1005		227								
				0600		1520	360		266		001499) 1	1161		191								
			STD OBS	0600		1520	360		26		001488	, 1	1101		191								
			STD	0700		1280	356		26		001301	0	1300		125								
			OBS	0700		280	356		269		301301		1000		125								
			STD	0800		160	354		270		001237	7.0	1427		098								
			Obs	0800		160	354		270		302231				098								
			STD	0900		1004	353		27		001068	33	1542		057								
			OBS	0900		1004	353		27						057								
			STD	1000		842	351		27		000911	0	1641		012								
			OBS	1000	C	842	351	70	27:	36				15	012								
			OBS	1050	(720	350	70	274	47				14	972								

REFERENCE CTRY ID.	SHIP	LATITU	OE LO	NGITUOE 1	MARSO	DEN		ON THE		YEAR	CRUISE	RIGINATO	TION		OEPTH TO MOTTOM	MAX. DEPTH OF	. [WAVE ERVATIONS	WEA- THER COOE	CODES		S.	NODC FATION UMBER	
31800		3154	1/10 N 06	1/10 5 5543 W	115		-	27 1		966	NO.	034	MBER	-	4755	2 WLF		HGT PER S	EA COUL	TYPE AM			0046	
	' '				, Ç	WAT	ER	w	IND	BARC		R TEMP.	℃	vis.	NO.		CIAL	, - , ,	,		1	'	00.00	
					C	CODE	TRANS.	O1R	SPEED OR FORCE	METE (mbs	R O		V E T ULB	COOR	OBS. DEPTHS		ATIONS							
					ſ			21	S12	14	6 2	50 2	239	7	06									
	MESSENGR CASTINE OF NO.		CARD	OEPTH (m)	T	°C	s	•/	SIGMA	A-T	SPECIFIC	VOLUME	DY	△ 0 N. M. 10 ³		DOLLA	0 2 ml/l	PO4~P µg ~ 01/1	TOTAL-P ug + et/l		NO3-N yg - ol/l	\$1 O4-\$i pg = a1/1		300
																								\prod
	100		STD	0000		520	36		242		003	6733	00	000		367								
	198	5	OBS STD	0010		520 512	36	268	242		003	6483	0.1	037		367								
	198	3	OBS	0010		512		276	242		003	0403	0.	051		367								
	198		OBS	T1534		437		002	277							939								
			STD	1750		411	34	99	277	7.9	000	4897			14	964								
			STD	2000		383	34		278		000	4797				995								
	198	OBS	T2057		377		979	278							002									
	100	,	STO	2500		338	34		278		000	4012				061								
	198	3	OBS	2579 3000		331		965	278		0.20					071								
	198	3	STD OBS	T3100		289 279	34 34	935	278		000	4424				126								

REFERENCE									1			T		I MAX.								1
CTRY IO.	SHIP	LATITU	OE L	DNGITUOE	MARSOEN SOUARE	STATION	TIME	YEAR	CRUISE		ATOR'S TATION	\dashv	OEPTH TO	OEPTH	OB	WAVE SERVATIONS	WEA-	COOES			NOOC	
		•	1/10	1/10 =		MD DAY			NO.	N	UMBER	_	BOTTOA	S'MPL"	S DIR.	HGT PER SEA	COOE	TYPE AMT			NUMBER	
31 8007	EV	3225	ONIO	64308W	115 24		031	1966		03			1884	14	17	2 2	X1	0 3		-	0047	1
					COLOR		WIN O	BARC	<u>ب</u>	IR TEN	AP. ℃ WET	VIS.	NO.	SPE	CIAL							
					COOE	TRANS. OIR.	OR FORC			JLB	BUTB	CODE	OEPTHS	OBSERV	'ATION 5							
					DT	SD 20	515	15	2 2	50	233	8	27									
MI	ESSENGR	CAST	CARO TYPE	OEPTH (m)	T °C	s 1/4.	SIG	MA-T	SPECIFIC	VOLUA	ME &	∆ 0 √N. M (10 ³	50	סאט	D2 m1/1	PO4-P	TOTAL-F	NO ₂ N	NO3~N	\$104-5		s
н	R 1/10		1172				-		ANOM	XET-210		K 10 ³	VEL	OCITY		yg = a1/1	µg · 01/1	µg • 01/1	yg - o!/l	yg - a1/	-	c
		-	ST0	0000	2467	3634	1	+47	003		,	000		7.5.			- 1				1	
	031		085	0000	2467	36341		+47	003	400	8 0	000		356								
			STD	0010	2465	3634		+48	003	464	4 0	035		357								
			OBS	0010	2465	36342	24	48						357								
			STO	0020	2464	3637		50	003	448	3 0	069	1.5	358								
	002		oBs	0020	2464	36366		50					15	358								
			085	0025	2464	36367		50				1.0		359								
			STD	0030	2460 2460	3637 36366		51 51	003	440	8 0	104		359								
			STD	0050	2405	3639		70	003	274	3 0	171		359								
			OBS	0050	2405	36390		70	00,	_ , ¬	, ,	- 1 -		349								
			STO	0075	2260	3653		23	002	780	0 0	246		320								
			085	0075	2260	36529	25	23					15	320								
			STD	0100	1959	3659		10	001	959	7 0	306		245								
			085	0100	1959	36587		10						245								
			085 STD	0118 0125	1873 1871	36589 3659		32	201	75.		360		224								
			085	0125	1871	36587		33	001	101	1 0	352		225								
			STD	0150	1840	3657		39	001	6949	9 0	395		225								
			OBS	0150	1840	36574		39	501	0,74	, ,	272		220								
			STO	0200	1812	3656		45	001	6574	+ 0	479		220								
			OBS	0200	1812	36557	26	45					15	220								
			STO	0250	1791	3653		48	001	544	1 0	562	15	222								
			STO	0300	1769	3650		51	001	6314	+ 0	643		223								
			OBS STO	0300 0400	1769 1726	36499 3641		51	001	. 20	2 0	007		223								
			OBS	0400	1726	36407		55	001	3302	2 0	807		226								
			085	0460	1688	36357		60						224								
			STD	0500	1620	3622		66	0015	5512	2 0	966		208								
			oBs	0500	1620	36223		66						208								
			STD	0600	1493	3601		78	0014	457	3 1	116		182								
			OBS	0600	1493	36005		78	0.01			2.		182								
			STD	0700 0700	1420 1420	3588 35875		84	0014	+234	+ 1	260		174								
			STD	0800	1304	3569		94	0013	3436	3 1	398		174								
			OBS	0800	1304	35689	26		001.) (+) (, 1	770		150								
			085	0880	1198	35546	27							125								
			STO	0900	1097	3540	27		001	1753	5 1	524		092								
			OBS	0900	1097	35397	27							092								
			085	0950	1031	35342	27							076								
			ST0 085	1000 1000	0800	3514 35136	27		0008	3671	1	626		996								
			510	1100	0619	35136	27 27		0006	600	. 1	703		996								
			OBS	1100	0619	35048	27		0000	000	, 1	103		941								
			STD	1200	0563	3508	27		0009	806	1	766		935								
			OBS	1200	0563	35076	27			-0,	•			935								
			ST0	1300	0523	3506	27		0009	5508	3 1	822		935								
			085	1300	0523	35056	27							935								
			STO	1400	0471	3503	27		0005	116	1	875		930								
			085	1400	0471	35026	27	15					14	930								

REFERE	NCE	SHIP			1 2	MARS	DEN	TAT	IDN TI			ORIGIN#	ATDR'	S		PTH	MAX.		WAVE		EA-	CLOUD	1		NODC	
	IĎ, NO.	CODE	LATITU	1/10	LONGITUDE PART	SOUA		MOTO	GMT)	YEAR	10		ATIO			TO M	A.E.		HGT PER	- 6	HER	TYPE AM			UM8ER	
318		EV	3315		06335 W	115		\rightarrow	_	047 196	-	036			1.1	81	16		5 3		(2	5 9	-		0010	
2 10	001		2212	' ''	00333 11 1	117	WAT			(IND)	_	AIR TEM	_	:		D. T		_	15151	1 '	~ 2	1 219	1	1	0048	
						1	DLDR		DIR.	SPEED ME	RO= ETER	DRY	WE	T CC			DBSERV	CIAL								
						L	CODE	tm)		FORCE (m	nbs)	BULB	BUL	-+-	_	-										
									02	515 1	86	211	16	7 7	7 1	. 1										
		MESSENGR TIME	CAST	CARD		T	°c	2	٠/	SIGMA-T		PECIFIC VOLUM	Ą.E	₹ △ DYN.	D.		סאנ	O2 ml/l	PD4-P	FOTA		NO ₂ -N	NO3-N	SI D4-SI	рΗ	S
		HR 1/10	I NO.	TYPE							Ľ	ANOMALY-X10		x 10	93	VELC	CITY		µg - a1/1	μg - c	171	µg - at/l	yg - a1∕l	h8 - 01/1	· · ·	c
				ST			442																			
		047	7	OBS			+42	35	01P	2354P																
		047	,	ST			39 38	26	02P	22570																
		04	1	OBS ST			+38	30	U 2 P	2356P																
				ST			+38																			
		047	7	OBS			438	351	07P	2360P																
				ST		22	246																			
				ST	D 0100	2(85																			
				ST			961																			
		0.4		ST			377	2.4		0.4.0.00																
		047	1	OBS			374	36	53P	2627P	'															
		047	7	ST OBS			326 324	36	56P	2642P																
		041		ST			308	30	702	20425																
				ST			790																			
		047	7	OBS			88	36	59P	2654P																
				ST	D 0400	17	754																			
		047	,	OBS			132	366	62P	2670P																
				ST			23																			
				ST			60																			
		0/-	,	ST			294	2.0	. 20	27660																
		047		06S ST			277	36	43P	2756P																
				ST			336																			
				ST			72																			
				ST			555																			
		047	7	OBS	T1130	0.9	29	36	43P	2879P																
				5 T	D 1200	0 9	04																			
				ST			172																			
		047	7	OBS			164	36	43P	2887P																
				ST			146																			
		047	7	ST OBS			+24 +03	36	46P	28060																
		041		005	11041	01	,05	20.	402	2896P																

REFERENCE					MARSDEN	STATION TH	u F		T 0	RIGINA	ATDR'S		DEPTH	MAX.		WAVE	WFA-	CLOUD			HODO	7
CTRY ID.	CDDE	LATITU	1	NGITUDE POLITICAL	SDUARE	(GMT)		YEAR	CRUISE	5	TATION		TD BDTTOM	DEPTH	00.	ERVATIONS	THER	CODES		2	NODC TATION NUMBER	
CODE NO.			1/10	17.10		MO DAY H			NO.		UMBER			S'MPL'		HGT PER SE	^ 	TYPE AM1	-			-
31 8007	EV	3356	NIO	6234 W	115 32 WAT		22 IND	1966		03	7 AP. °C		4207	15	25	5 3	×1	0 3	1		0049	Pl .
							SPEED	- BARG)+ <u> </u>	RY	WET	VIS.	ND. OBS.	SPE	CIAL							
					COLOR	Imi DIR.	FORCE	[mbs		IFB	SULB	-	DEPTHS	COSEK	YA HONS							
					DT	SD 20	510	20	7 1	94	144	7	24									
	MESSENGA		CARD	DEPTH (m)	1 *c	s °/	210	MA-T	SPECIFIC		ME Z	△ 0 (N. M (10 ³	SDI	UND	D2 ml/l	PO 4-P	TOTA L-P	NO2-N	NO3-N	SI 04~S		S
	HR 1/10		TYPE						ANOMA	ALY-X10		(103	VELO	OCITY		μg = 01/1	yg - at/1	µg - ot/1	pg - al/1	yg - a1/		c
	2.0		STD	0000	2378	3619		63	003	321	2 0	000		332								
	12	2	OBS STD	0000	2378 2378	36191 3619		63	003	175	2 0	033		332								
			OBS	0010	2378	36191		63	00 3	رےد	2 0	0 3 3		334								
			STO	0020	2379	3619		63	003	330	6 0	067		336								
	00;	2	OBS	0020	2379	36193		63			•	- 0 ,		336								
			085	0025	2379	36193		63						337								
			STO	0030	2379	3619	24	63	003	334	6 0	100	15	338								
			OBS	0030	2379	36193	24	63					15	338								
			STD	0050	2379	3620		63	003	341	1 0	167		341								
			085	0050	2379	36195		63						341								
			STD	0075	2380	3623		65	003	326	5 0	250		346								
			OBS	0075	2380	36233		65						346								
			STD	0100	2254	3665 36647		33	002	688	4 0	325		323								
			085 STD	0125	2254 2080	3670		33	002	1 0 %	5 0	386		323								
			085	0125	2080	36702		86	002	1 7 7	, ,	200		283								
			STD	0150	1992	3669		09	001	968	9 0	+38		264								
			OBS	0150	1992	36687		09						264								
			STD	0200	1889	3662	26	30	001	796	5 0	>33	15	242								
			OBS	0200	1889	36620	26	30					15	242								
			STD	0250	1844	3660		40	001			621		238								
			STD	0300	1811	3657		47	001	678	9 0	706		236								
			OBS	0300	1811	36572		47	001	. 7.				236								
			STD OBS	0400	1780 1780	3653 36527		51	001	6/1	4 U	874		243								
			STD	0500	1721	3643		58	001	637	2 1	039		241								
			065	0500	1721	36427		58	001	05,	. 1	0))		241								
			STD	0600	1617	3619		64	001	596	7 1	201		223								
			085	0600	1617	36194	26	64					15	223								
			STO	0700	1368	3577	26	86	100	393	0 1	50 د	15	156								
			085	0700	1368	35766		86						156								
			STD	0800	1144	3546		07	001	194	9 1	480		092								
			OBS	0800	1144	35460		07		0.7.				092								
			STD	0900 0900	0909	3521		29	000	976	9 1	588		021								
			085 ST0	1000	0909 0679	35208 3503		29	000	752	0 1	675		021								
			OBS	1000	0679	35033		49	000	, , ,	7 1	073		948								
			STD	1100	0578	3507		65	000	597	1 1	742		924								
			OBS	1100	0578	35065		65			- •			924								
			STD	1200	0523	3506		71	000	538	2 1	799		919								
			OBS	1200	0523	35057		71						919								
			STD	1300	0487	3505		75	000	503	7 1	851		921								
			OBS	1300	0487	35052		75	0.00			00-		921								
			STD 085	1400 1400	0458 0458	3504 35035		777	000	487	5 l	901		925								
			SID	1500	0436	3502		79	000	475	5 1	949		925								
			OBS	1500	0436	35024		79	000	(,,	_ 1	749		933								
				1500	0450	33024		, ,					14	700								

TABLE IV .- Continued

REFERENCE CTRY ID.	SHIP		TUGE	LONGITUE	NDCTR 1	MARS	OEN ARE	STATI	ON TI	WE	YEAR	ORIGIN		_	DEPTH	MAX		WAVE SERVATION		VEA-	CLOUD		T	NODC	
CODE NO.	coo		1/10		1/10	10°			AY H			CRUISE S	AOITAT IBM UI		BOTTON	S'MPL		HGT PER		ODE	TYPE AM			NUMBEI	
31800	7 EV	34	+00N	06125	5 W	115			31 1	93	1966	03	8		4207	1 1 !	5 34	4 2		X 1	0 3			005	0
							WA1		W	SPEED	BARC		AP. ℃ WET	VIS.	NO.	SP	ECIAL								
						ľ	COLOR	TRANS.	DIR.	OR FORCE	(mbs		BULB	CODE	OBS. DEPTHS	OBSER	VATIONS								
							DT	50	03	\$08	23	4 206	16	1 7	27										
	MESSE	GR CAS	T CAR		TH (m)	T	℃	S	٠/	SIGM	A-T	SPECIFIC VOLU	ME C	Δ D.	so	סאט	O2 m1/1	PO4-P	TOTA	L-P	NO ₂ -N	NO ₃ -N	5104-	Si ph	5
	HR 1.	10	1177	-						_		ANOMALY-XI		x 103	VEL	OCITY		pg = 01/	PQ -	61/1	νg - at/l	µg - 01/l	µg − al/	1 7	č
		- 1	١ ,	TO 0	000	2	333	36	15	24	73	003228	ا ۽	0000	1,	321				- 1					- [1
	1	93	085		000		333	36		24		003228	, (,000		321									
					010		333	36		24		003232	4 (032		323									
			085		010		333	36		24						323									
		02	08		020		333 333	36	15 150	24		003232	8 (0065		324									
		02	0B:		025		334	36		24						324									
					030		334	36		24		003239	5 (0097		326									
			083		030		334	36		24	73				15	326									
					050		335	36		24		003246	6 (162		330									
			083		050 070		335	36		24						330									
			085 51		075		329 259	362		24		002966	9 (240		332									
			089		075		259	362		250		002706	0 (1240		316									
			5		100		087	366		25		002258	9 (305		280									
			089		100		087	366		25					15	280									
			51		125		979	366		260		001975	7 (358		255									
			089 S1		125 150		979 915	366 366		260		001861	^	405		255									
			089		150		915	366		262		001841	0 (1405		242									
					200		850	365		26:		001728	0 (495		231									
			085	5 0	200	1	850	365	86	26:						231									
			51		250		826	365		264		001691	8 (580	15	232									
					300		799	365		264		001661	6 ()664		232									
			0B		300 400		799 7 38	365		264		001633	, ,			232									
			0B		400		738	364		26!		001633	1 (829		230									
					500		659	363		266		001587	5 (990		221									
			089	s 0	500	1	659	362	296	266						221									
			S1		600		490	359		26		001468	9 :	143	15	181									
			085		700		490	359		261		001360	0	200	1.5	1.20									
			51 085		700 700		267 267	356 356		269		001280	σ.	.280		120									
			51		800		019	352		27		001105	0 1	399		046									
			089	5 0	008	10	019	352	67	27						046									
			089		840		917	351		272						014									
			085		889		860	351		273		00000		5.00		000									
			085 085		900 900		799 799	350 350		273		000898	5]	500		978									
			51		000		522	350		275		000660	5 1	578		978									
			089		000		522	350		275		200000	-	- 10		925									
			S1	1 07	100	0 5	522	350	2	276		000554	3 1	638		901									
			085		100		522	350		276						901									
			ST		200		486	350		27		000519	2 1	692		903									
			085 S1		200 300		486	350 350	-	277		000490	4 1	742		903									
			085		300		460	350		27		000470	0 ,	142		909									
			ST	rD 1	400		440	350		277		000483	4]	791		917									
			085		400		440	350		277	77					917									
			51		500		422	350	_	277		000470	5]	839		927									
			085	5 1	500	0.4	422	350	05	277	79				14	927									

EFER	ENCE	SHIP	LATITUE	E LO	NGITUDE H	E /	MARSOEN	TATE	ION TI	ME	YEAR	-	NATOR*		DEPTH TO	MAX	d ops	WAVE ERVATIONS	WEA-	CLOUD			NODC	
RY DE	ID.	CODE	·	1/10	NGITUDE 1	<u> </u>	10. 1.	MOE			·cns	NO,	STATIC NUMB	N ER	BOTTON	0.5		HGT PER SE	CODE	TYPE AMI			NUMBER	
3 1	8007	EV	3515	N D	5020 W	1	15 50	11 (01 0	27 1	1966	0:	39		4663	3:	1 07	1 4	x 2	0 3			0051	
		,		'	'	1	WA	TER	W	IND	BARO		MP. °C		NO.	5,0	ECIAL	1 - 1 1					00-2	
							COLOR	TRANS.	DIR.	SPEED OR FORCE	M ET ER	DRY BULB	W.E.	CODE	OBS. DEPTHS	OBSER	VATIONS							
							DT		07	510	281		18	\rightarrow	28									
	1	MERCENCE			1	-	1				' 	SPECIFIC VOL						T., .						7.
		MESSENGR TIME	NO.	TYPE	DEPTH (m)	-	T C	S	٠/	SIGM	T-A	ANOMALY-1		₹ Δ D DYN. M. x 10 ³		UND	O2 ml/1	PO4-P yg - a1/1	fOTAL-P ug - ol/l	NO2-N μg - αt/l	NO3~N yg - al/l	\$1 O4-5		ć
		HR 1/10			-	+		+		1					+-								 	+1
	I		1	STO	0000	- 1	2389	36.	27	246	65	00329	82	0000	1 15	336		1 1		'	'		1	1 +
		027	7	OBS	0000		2389		266	246						336								
				STD	0010		2390	36.		246		00330	50	0033		338								
				OBS STD	0010		2390	36.	266 27	246		00330	20	0066		338								
		002)	OBS	0020		2390		266	246		00330	, ,	0000		340								
				085	0025		2390	36.	266	246						340								
				STO	0030		2390	36		246		00331	30	0099		341								
				OBS STD	0030		2390 2390	36	266	246		00332	าจ	0166		341								
				OBS	0050		2390		267	246		00332	,,	0.00		344								
				SID	0075		2099	36		25		00229	29	0236		279								
				QBS	0075		2099		608	25						279								
				STO	0100		1949	36		26:		00190	58	0288		243								
				OBS STO	0100 0125		1949 1894	360	527	26 I		00178	5.4	0334		243								
				085	0125		1894		618	262		00170	, 4	0554		232								
				STD	0150		1857	36		263		00172	44	0378		225								
				OBS	0150		1857		590	263						225								
				STD 08S	0200		1818	36	วช 576	264		00165	80	0463		222								
				STD	0250		1804	36		264		00164	62	0545		226								
				STO	0300		1787	36		269		00163		0628		229								
				OBS	0300		1787		547	269						229								
				STD	0400		1744	36		265		00162	78	0791		232								
				OBS STO	0400		1744 1700	36	469 41	265 266		00160	3.8	0952		232								
				085	0500		1700		405	266		00100	, 0	0 / 12		234								
				STD	0600		1539	361	04	26		00153	43	1109		197								
				OBS	0600		1539		38	26						197								
				STO OBS	0700 0700		1321 1321	35	707	269		00133	39	1253		139								
				STO	0800		1054	35		27:		00111	49	1376		059								
				OBS	0800		1054	35	340	27						059								
				STO	0900		0812	35		273		00088	2 8	1476		983								
				OBS STO	0900 1000		0812 0660	35	117	273		00072	7 1	1557		983								
				OBS	1000		0660		331	275		00072	<i>t</i> 1	1556		940								
				STD	1100		0562	350		276		00058	9	1622		918								
				OBS	1100		0562)44	276	56				14	918								
				STO	1200		0500	351		277		00051	32	1677		909								
				OBS STD	1200		0500 0479	350)48	277		000490	16	1727		909								
				OBS	1300		0479		055	271		000491	10	1121		917								
				STO	1400		0457	350	04	27		000480	8 0	1776		925								
		0		OBS	1400		0457		042	27					14	925								
		043	3	OBS STD	T1478		0436	364	430	289		00044		122	1.	0.71								
				OBS	1500		0432		026	271		00046	36	1823		931								
				STO	1750		0404	351		278		00047	27	1941		961								
		0	,	STO	2000		0377	34		278		00047	13	2059		992								
		043	5	OBS STD	T2034 2500		0374	34	974	278		00045	. 0	2./01		997								
		043	3	085	T 2621		0320		960 960	278		00045	J ()	2291		058								
				STD	3000		0286	34		278		00043	79	2514		125								
		0 4 3	3	OBS	T3112		0276	34	937	278						140								

REFERENCE	9IHZ	LATITUE		ONGITUDE	E 5	MARSDEN	STATION TI	ME	YEAR		ORIGIN			DEPTH	DEPTI		WAVE SERVATIONS	WEA	CLOUD			NODC]
CTRY IO.	CODE	·	1/10	1/10	NOC		MO DAY THI	1/10	TEAK	CRUISE NO.		TATION		MOTTOS	OF S'MPL	00.	HGT PER SE	THER		1	1	NUMBER	
31800	D7 EV	3542		06050 W	1 1			81	1966		04			4612	15	1		x1	0 3	1		0057	
1 3 -1- 3 -	- 1 - 1		., ,		'	WAT		IND	$\overline{}$	1	AIR TEA		\vdash	NO.	_	<u>, </u>	[4[4]	1 1	1 013	1	1	0052	4
						COLOR	TRANS. DIR	SPEED		ER	DRY	WET	VIS.	ORS. DEPTHS	OBSER	CIAL VATIONS							
						-	100.1	FORCI			ULR	BULR		_									
						DT	SD 06	\$07	2 9	75 2	11	194	7	25							,		
	MESSENG! TIME	CAST NO.	CARD	DEPTH	(m)	τ °c	s */	SIG	MA-T	SPECIFIC	VOLU	ME S	△ 0 rn. m k 10 ³	sou	מאנ	O2 m1/1	PO4-P	TOTAL-P	NO2-N	NO3-N	SI O4-S		S
	HR 1/10	T NO.	TYPE					_		2000	MLI-AN		K 10 ³	VELC	CITY		μg = α1/l	μg = α1/l	NB - 01/1	yg - 01/l	yg - at/	-	c
										1													
	0.8	,	STI OBS	000		2340 2340	3614 36139		70 70	003	3252	3 0	000		323								
	0.0	1	STI			2340	3614		70	003	3256	3 0	033		324								
			085	001		2340	36139		70	00.	, 2) 0	, ,	درن		324								
			ST			2340	3614	24	70	003	3260	2 0	065		326								
	00	2	OBS	002		2340	36139		70						326								
			OBS	002		2340 2340	36139 3614		70	0.0	3264	2 0	098		327								
			STI OBS	003		2340	36139		+70 +70	00:	204	۷ ر	098		328								
			STE			2340	3614		70	003	272	1 0	163		331								
			OBS	009		2340	36139		70						331								
			OBS	006		2320	36375	_	94						332								
			ST0	007		2220	3653 36527		34	002	672	/ 0	237		309								
			ST			2060	3663		86	002	2186	7 0	298		273								
			085	010		2060	36628		86	001	. 100	, ,	_ , 0		273								
			STO	012	25	1952	3660	26	12	001	944	1 0	350		247								
			085	012		1952	36597		12				_		247								
			STI	015		1875 1875	3657		30	001	.783	3 0	396		230								
			08s			1820	36569 3657		30	001	670	1 0	483		230								
			OBS	020		1820	36566		44	00.	010	, 0	.05		222								
			STI			1802	3655		647		655		566		225								
			STI			1781	3652		50	001	641	8 0	648		227								
			OBS ST	030		1781 1733	36524 3643		50	001	630	0 0	812		227								
			085	040		1733	36430		55	00.	.000	0 0	012		228								
			ST			1639	3624		63	001	584	3 0	973		214								
			OBS	050		1639	36237	26	63					15	214								
			STE			1440	3588		80	001	430	9 1	123		164								
			OBS STI	060		1440 1162	35884 3546		704	0.01	202	2 1	255		164 082								
			085	070		1162	35464		704	001	202	2 1	2))		082								
			ST	080	0.0	0930	3521	27	725	000	992	1 1	365		012								
			085	080		0930	35209		725						012								
			STE			0753	3510		744	000	804	9 1	455		961								
			OBS STI	090		0753 0586	35096 3503		744 761	000	623	9 1	526		961 911								
			085	100		0586	35026		761	500	.023	1	- 20		911								
			STE			0527	3503		169	000	552	4 1	>85		903								
			085	110		0527	35029		769						903								
			ST			0498	3505		773	000)512	7 1	638		908								
			OBS ST	120		0498 0479	35045 3505		773	000	1495	0 1	688		908								
			085	130		0479	35049		176	000	, 4 70	0 1	000		917								
			ST			0450	3504		778	000	473	5 1	737		922								
			085	140		0450	35039		78					14	922								
			STO) 150 150		0432	3503		779	000	467	9 1	784		931								
			005	150		0432	35027	21	779					14	931								

REFERENCE CTRY ID.	SHIP	LATITU	DE	LONGITUDE	E MAI	RSDEN	STATION THE	ME	YEAR	CRUISE	RIGINA	TOR'S		DEPTH	MAX. DEPTH	DBS	WAVE ERVATIONS	WEA- THER	CLOUD		5	NODC	
CODE HO.	CODE	•	1/10	17/10	10*	L	MO DAY H	2,1/10		NO.		UMBER		BOTTO	S'MPL		HGT PER SEA	CDDI	TYPE A MT		Ň	UMBER	
31800	EV	3605	N	06046 W	111	5 60	11 01 1	07	1966		04	1		4846	15	06	4 4	X1	0 3			0053	
						WA	ren w	IND	BARC	. A	IR TEM	P. ℃	VIS	ND.	500	CIAL					1		
						COLOR	TRANS. DIR.	SPEED OR	METE	R C	JLB JLB	WET	CODE	OBS.	ABEEN	A TIONS							
						DT	5D 06	507	`		06	167	7	28	1								
							30 00	1	1					_			7 - 1					1	П
	MESSENGR TIME 0	CAST	CARD	DEPTH (m1	T °C	s */	SIG	MA-T	SPECIFIC	AUJOVA QIX—VJA	AE DY	△ D N. M	. VEL	OCITY	D 2 ml/l	PD4-P	TOTAL-P: pg = a1/I	NO2-N ug - ol/l	NO3-N pg - 01/l	\$1 O4-\$i yg - 01/1	pН	ç
	HR 1/10												103	+-				-					H
	I		l St	D 000	0 1	2323	3611	24	73	003	223	1 O	000	۱,	318 5318		[]		1	1		ı	1 1
	107	7	0B5			2323	36114		73						318								
			51			2323	3611		73	003	227	0 0	032	1:	320								
			0B5			2323 2325	36114 3613		73	003	2271	n 0	A / E		320								
	002	,	085			2325	36126		73	003	2279	9 0	065		322								
			085			2325	36126	_	73						323								
			ST			2325	3613		73	003	231	1 0	097	1 1 5	324								
			085			2325	36127		73	003	330	, ,	1/2		324								
			51 08s			2332 2332	3617 36167		74	003	229	0	161		329								
			085			2332	36189		76						5332								
			ST			2293	3637		01	002	985	1 0	239		326								
			OBS			2293	3648Q		100		100												
			5 T 0B5			2084 2084	3671 36705		85	002	193.	3 0	304		280								
			51			1991	3666		07	001	998	1 0	356		5259								
			085			1991	36658		07						259								
			5 T			1915	3662		23	001	847	5 J	404		5241								
			085 51			1915 1802	36616 3649		23	001	684	2 0	493		241								
			085			1802	36487		42	001	004	2 0	493		5216 5216								
			ST			1775	3647		48	001	649	5 0	576		216								
			ST			1749	3645		53	001	616		658	1:	5217								
			OBS ST			1749	36454		53	001	E (1 a :	7 0			217								
			085			1699 1699	3639 36387		60	001	581	/ 0	8 I 8		5217 5217								
			ST			1526	3603		72	001	484.	2 0	971		177								
			OBS			1526	36026		72						5177								
			ST			1274	3565		96	001	262	1 1	108		106								
			08S			1274	35646 3527		96 718	001	050	7 1	224		022								
			OBS			1000	35266		718	001	000	, 1	- 4		5022								
			ST	D 080	0 +	0820	3512	27	736	000	877	8 1	320		+970								
			089			0820	35117		36					14	+970								
			0BS			0762 0756	35080 35020		7410					1.7	+951								
			085			0640	35037		155						+951 +912								
			ST	D 090	0 (0628	3505		57	000	655	8 1	397		911								
			085			0628	35045		757						911								
			ST OBS			0538	3503 35026		167 167	000	5574	4 1	458		+891								
			ST			0502	3503		772	000	519	9 1	511		4891 4893								
			OB5	110	0 (0502	35027		72						893								
			ST			0469	3503		75	000	4869	9 1	562		+896								
			085 ST			0469 0459	35027 3503		75	000	1.01	, ,	410		896								
			0B5			0459	35027		76	000	484	1 1	610		+909 +909								
			ST			0432	3501		78	000	470	5 1	658		1914								
			085			0432	35010	27	78					14	+914								
			5T 0BS			0404	3501		81	000	445	7 1	704		+919								
			005	150	0	0404	35006	27	81					14	+919								

FERENCE RY II	_	SNIP	LATITU	DE LQ	NGITUDE NOCITE NOCITE N	MARSDEN SQUARE	STATION TIVING IGMT)	YEAR	ORIGI CRUISE NO.	STATION	NC.	DEPTH TO BOTTOA	DEPTH OF S'MPL	280	WAVE ERVATIONS HGT PER S	0.00	R CODE	3	ST.	IDDC ATION JMBER
3180	107	EV	3630	N 0	5120 W	115 61	11 01 1	49 1966	0	42		4800	19	07	2 4	Х	1 0 3			0054
		·			· ·	WAT	ER W	IND BAR		EMP. 1		NO. 08S.	SPI	CIAL						
						COLOR	TRANS. DIR.	OR (mb	ER DRY	WE	T CODE	OBS. DEPTHS		ZNOTTAN						
						-	$\overline{}$		_	-										
	-					DT	50 09	518 32	288	1 1	78 7	30	Ш,							
	- 1	MESSENGE	CAST	CARD	DEPTH (m)	T °C	5 %.	SIGMA-T	SPECIFIC VOL	UME	₹ △ D DYN, M x 10 ³	so	ONU	0 2 ml/l	PO4-P	TOTAL-		NO3-N	Si Q ₄ -Si	ρН
		HR 1/10	T NO.	TYPE					ANOMALY-		x 10 ³	VEL	OCITY		µg • a1/1	yg = at.	/l µg = a1/l	h8 - 01/1	μg - ο1/1	,
										- 1										
				STD	0000	2354	3626	2475	00320	63	0000		327							
		14	9	OBS	0000	2354	36257	2475					327							
				STD 08S	0010 0010	2353 2353	3626 36257	2475 2475	00320	75	0032		5329							
				STD	0020	2359	3626	2474	00322	6.8	0064		5329							
		0.0	2	085	0020	2359	36259	2474	00322	00	0004		5332							
				OBS	0025	2359	36259	2474					5333							
				STD	0030	2359	3626	2474	00323	08	0097		334							
				OBS	0030	2359	36259	2474					5334							
				OBS	0048	2356	36261	2475					336							
				STD	0050	2340	3628	2481	00316	90	0161		5332							
				085	0050	2340	36282	2481	0000		0.10		5332							
				STD	0075	2119	3663	2570	00233	01	0429		5284							
				OBS STO	0075 0100	2119 1949	36629 3662	2570 2615	00191	0.0	0282		5284 5243							
				085	0100	1949	36620	2615	00191	09	0282		5243							
				STD	0125	1871	3660	2634	00174	0.8	0328		5225							
				085	0125	1871	36602	2634	00114	00	0 - 2 0		5225							
				STD	0150	1841	3657	2639	00170	23	0371		5220							
				085	0150	1841	36567	2639					5220							
				SID	0200	1792	3655	2650	00161	19	0454	1 :	5214							
				OBS	0200	1792	36554	2650					5214							
				510	0250	1779	3653	2651	00161		0535		5218							
				STD	0300	1759	3650	2654	00160	78	0619		5220							
				085 STD	0300 0400	1759 1698	36499 3639	2654 2660	00157	04	0774		5220							
				085	0400	1698	36387	2660	00157	74	0 7 74		5217							
				STD	0500	1557	3609	2670	00150	40	0929		5187							
				OBS	0500	1557	36093	2670	00100	-0	0,2,		5187							
				STD	0600	1319	3568	2690	00132	54	1070		5122							
				OBS	0600	1319	35683	2690					5122							
				STD	0700	1047	3530	2712	00111	07	1192	1:	5040							
				OBS	0700	1047	35298	2712					5040							
				STD	0800	0812	3511	2736	00087	31	1291		4967							
				085	0800	0812	35106	2736					4967							
				OBS	0830 0848	0720 0720	35067 35094	2746 2749					4936							
				OBS STD	0900	0659	35094	2749	00068	45	1369		4939							
				085	0900	0659	35067	2755	00000	4)	1005		4924							
				085	0962	0613	35042	2759					4915							
				OBS	0979	0562	35023	2764					4897							
				085	0991	0573	35053	2765				1	4904							
				STD	1000	0553	3503	2765	00057	80	1432		4897							
				OBS	1000	0553	35026	2765		-			4897							
				STD	1100	0496	3502	2772	00051	78	1487		4891							
				085	1100	0496	35019	2772	000/0	0.0	152-		4891							
				STD OBS	1200 1200	0460	3501 35008	2775 2775	00048	84	1537		4892							
				S1D	1300	0460	35008	2776	00047	9.6	1586		4892 4901							
				085	1300	0440	35000	2776	00047	00	1 286		4901							
				STD	1400	0440	3500	2778	00046	40	1033		4910							
				085	1400	0421	34999	2778					4910							
				510	1500	0421	3502	2780	00046	03	1679		4927							
				085	1500	0421	35017	2780				-	4927							

															1449						-	
REFER	IO.	SHIP	LATITU	IOE LO	DAGITUOE PING	MARSOEN	STATION TO	ME	YEAR	CRUISE		TATION	\dashv	OEPTH TO	MAX. OEPTH	085	WAVE SERVATIONS	WEA-	CLOUG		ST	OOC ATION
CODE	NO.	COOE	•	1/10	1/10		MO OAY H	R,1/10		NO.	,	UMBER		BOTTOM	S'MPL'S		HGT PER SEA	2005	TYPE AM		NI	IMBER
31	8007	EV	3656	2N 0	6138 W	115 61		176	1966		04			4938	15	10	2 2	X1	0 3			0055
						WA		SPEED	BARO			AP. °C	vis.	NO.	SPEC	IAL						
						COLOR	TRANS. OIR.	OR	4 1 1		LB L	W E T BULB	CODE	OEPTHS	OBSERVA	SHORE						
						DT	SD 06	520	32	2 22	28	178	7	26								
		MESSENGR TIME	CAST	CARO	1		1	Т		SPECIFIC	VOLUA	AF ≨	Δο	501	DND		PO 4-P	TOTAL-P	NO2-N	NO3-N	SI O4-Si	2
		HR 1/10	NO.	TYPE	OEPTH (m)	T °C	s *4.	SIG	T-AM	ANOMA	LY—XID	7 01	△ 0 N. M. 10 ³	VELO	CITY	O2 ml/1	yg = a1/1	μg • ο1/1	ug - at/l	μg - αl/1	yg - ot/I	pH C
		110 1710																				
			'	STD		2263	3630		05	0029	923	9 0	000		305		'		'			
		176	5	OBS	0000	2263 2263	36300 3630		505 505	0029	727	0 0	029		305 307							
				STD OBS	0010	2263	36300		505	002	761	0 0	029		307							
				STO	0020	2263	3630	25	05	0029	931	7 0	059		309							
		002	2	085	0020	2263	36300		505						309							
				OBS	0025	2263	36300		05	0036	325	7 0	000		309							
				STD OBS	0030	2263	3630 36300		505 505	0029	, 33	, 0	880		310							
				STD	0050	2263	3630		504	0029	944	2 0	147		314							
				OBS	0050	2263	36299		04						314							
				OBS	0066	2263	36298		04	0036	1.		216		316							
				STD OBS	0075 0075	2128 2128	3641 36407		551 551	0025	14	0 0	215		284 284							
				STD	0100	1980	3661		506	0019	998	0 0	271		251							
				OBS	0100	1980	36607		06						251							
				STD	0125 0125	1901 1901	3659		525	0018	325	0 0	319		233							
				OBS STD	0150	1849	36587 3657		525 537	001	720	9 0	363		233							
				OBS	0150	1849	36568		37			, ,	- 05		222							
				STD	0200	1809	3656		546	0016	647	3 0	448		219							
				OBS	0200 0250	1809	36561		546	001			E 2 A		219							
				STD STD	0300	1787 1765	3654 3651		550 553	0016			530 611		221 222							
				OBS	0300	1765	36508		553	001			- 1 1		222							
				STD	0400	1720	3642		558	0016	03	9 0	772		224							
				OBS STD	0400 0500	1720 1641	36424 3628		558 566	0015	E / .	0 0	0 20		224							
				OBS	0500	1641	36284		666	001:))4	9 0	929		215							
				OBS	0560	1499	36002		76						178							
				STD	0600	1457	3593		80	0014	37	5 1	079		170							
				OBS STD	0600 0700	1457 1210	35925 3554		80 700	0012	41	3 1	213		170							
				OBS	0700	1210	35537		700	0012	.41.	J 1	-13		100							
				STD	0800	0940	3518	27	722	0010	275	5 1	326		016							
				085	0800	0940	35184		722						016							
				STD OBS	0900 0900	0744 0744	3507 35067		743 743	0008	112.	2 1	418		957 957							
				STD	1000	0591	3501		759	0006	44	9 1	491		912							
				OBS	1000	0591	35007	27	759					14	912							
				STD	1100	0521	3502		769	0009	486	6 1	551		901							
				OBS STD	1100 1200	0521 0478	35023 3500		769 772	0005	10	0 1	604		901 900							
				085	1200	0478	35001		772	0002	101	0 1	004		900							
				STD	1300	0465	3502		775	0005	00.	2 1	655		911							
				OBS	1300		35016															
				STD	1400	0448 0448	3503		778	0004	78	1 1	704		921							
				OBS STD	1400 1500	0448	35029 3501		778 779	0004	73	5 1	752		921 929							
				OBS	1500	0427	35010		779			- 1	. , _		929							

REFERENCE	Τ	_			_ =	MAR	SDEN	STA	TION 1	IME		T	ORIGINA	TOR'S		OEPTI	н ма		WAVE	WE	A-	CLOUD		,	10DC	
CTRY ID.	CODI	LA	TITUDE 1/1	1	GITUDE 1200	10°	ARE		(GMT)	1R.1/10	YEAR	CF		ATION		TO BOTTO	067	: [003	ERVATIONS	TH	ER _	CODES		57	ATION	
31800	7 EV	37	2451	_	200 W	115		11		205	1966	5	044	4		502			3 2	X		0 3			0056	
							WAT	1	+	WIND	BAR	0-	AIR TEN	P. °C	VIS.	NO.	SI	PECIAL								
							COLOR	TRAN (m)	DIR.	SPEED OR FORC	E (mb		BULB	anra	CODE	DEPTH	IS OBSET	RVATIONS								
							DT	S	13	51	3 2	2.2	228	189		27						т				
	MESSER TIM HR 1	IGR CA	ST C	CARD TYPE	DEPTH (m)	Т	°C	!	*/	SIG	MA-T	SP	PECIFIC VOLUA	, W	△ D rN. M. (10 ³	VE VE	OUND	02 ml/l	PO4-P µg = ot/1	TOTAL-		NO2-N ig - at/l	NO ₃ -N µg - a1/1	\$1 O4-\$i µg + at/l	ρН	S C C
				STO	0000		299	1	26		. 0.1		003053		000	Ι,	5214									
	2	05	C	DBS	0000		299		257		491 491	,	003033	5 0	000		5314									
				STD	0010		298		26		491	(003054	в о	031	1	5315									
			C	DBS	0010		298		257 26		491		002062		0.4		5315									
	0	0.2	C	STO DBS	0020		300		5258		491 491	1	003063	<i>y</i> 0	061		5317									
				OBS	0025	2	300	36	258	24	491					1	5318									
				STD	0030		300		27		491	(003060	3 0	092		5319									
			(OBS STD	0030 0050		287		268 30		491 498		003008	5 0	152		5319									
			C	DBS	0050		287		301		498	,	003000		- , -		5320									
				STD	0075		120		57		565	(002376	8 0	220		5284									
			C	OBS STD	0075 0100		960		568 61		565 511		001947	n 0	274		5284									
			(DBS	0100		960		608		511	,	001747	•			5246									
				STD	0125		906		61		525	1	001821	4 0	321	1	5235									
			(OBS STD	0125 0150		906		609 57		525 535		001740	0 0	365		5235 5225									
			C	DBS	0150		859		5574		535	,	001740	0 0	202		5225									
				STD	0200		811		56		546	(001649	9 0	450	1	5220									
			(DBS	0200		811		564		546						5220									
				STD	0250 0300		.797 .780		555		548 551		001644 001636		533 615		.5224 .5227									
			C	DBS	0300		780		5528		551	,	001030				5227									
				STD	0400		734		45		556	(001618	7 0	777		5229									
			C	OBS	0400 0500		.734		3449 34		556		001597		938		5229									
			C	STD DBS	0500		676		336		561 561	1	001397	9 0	750		5226 5226									
				STD	0600		494		99		576	(001474	0 1	092		5183									
			C	DBS	0600		494		985		576				100		5183									
			_	STD DBS	0700 0700		296		622 622		590 590	(001349	8 1	233		5130 5130									
				STO	0800		034		32		716	(001094	8 1	355		5052									
			C	OBS	0800		034		318		716						5052									
				STD	0900 0900		814		08 5082		734	(000911	6 1	455		.4984 .4984									
				DBS STD	1000		648		5082 502		734 753	-	000715	3 1	537		4984									
			(OBS	1000		648		5023		753						4935									
				DBS	1015		603		975		755						4919									
				385	1025		0616		035		758						4927									
			(DBS STD	1050 1100)562)523		976 99		760 766		000577	7 1	601		.4909 .4901									
			(DBS	1100	C	523	34	987	2	766					1	4901									
				STD	1200		481		99		771		000531	5 1	657		4901									
			(OBS STD	1200 1300)481)460		+988 +99		771 773		000514	0 1	709		.4901 .4909									
			(DBS	1300		460		988		773		000214	_ 1			4909									
				STO	1400	(1442	3	+99	2	775		000500	0 1	760	1	4918	1								
			(OBS	1400		1442		988	_	775		000512	2 .	811		4918									
			0	STO DBS	1500 1500)432)432		+97 +965		775 775		000513	2 1	811		.4930 .4930									
				_ 5			_			_							,									

REFERENCE			-	MARSDEN	STATION TIE	u.F		ORIGI	NATOR'S		DEPTH	MAX.		WAVE	WEA-	CLOUD	Γ		000	
CTRY ID. CODE	LATITU		NGITUDE	SOUARE	(GMT)		YEAR	CRUISE	STATIO	4	BOTTON	OEPTH OF		SERVATIONS	THER	CODES		ST	ATION JMBER	
COUL NO.		1/10	1710		MO DAY NE				NUMBE	K		3 MPL 3		HGT PER SEA	`+	TYPE AMI				
31 8007 EV	3744	N 0	6217 W	115 72		14 1	966	0.4	45 MP. ℃		5030	14	10	3 2	X1	0 3	1	1	0057	1
						SPEED	METER	+	WET	VIS.	NO. OBS.	SPE(OBSERV	CIAL							
				COLOR	(m) DIR	FORCE	(mbs)	BULB	BULB		DEPTHS	OUSERV	~ 110113							
				DT	SD 12	515	335	5 206	16	1 7	24									
MESSENG		CARD	DEPTH (m)	1 10	5 1/4.	SIGM	A - T	SPECIFIC VOL	UME	₹ ∆ D	so	סאט	O2 ml/l	PO4-P	TOTAL-P	NO2-N	NO3-N	SI O4-Si	-14	5
TIME HR 1/10	NO.	TYPE	DEFIN UNI		, ,,,	SIGM	^-'	ANOMALT-	107	x 10 ³	. VEL	OCITY	07 111121	yg = 01/1	1/1ه - ور	ا/10 - ور	µg - 01/l	/10 - gu	рН	Ċ
,		STD	0000	2322	3619	247		00316	26	0000		319								
11	4	085	0000	2322	36194	247		00217		0000		319								
		STD 085	0010	2323	3619 36193	247		00317	UI	0032		321								
		STD	0020	2323	3619	247		00317	40	0063		322								
00	2	085	0020	2323	36193	247						322								
		085	0025	2323	36193	247						323								
		STO	0030	2323	3619	247		00317	80	0095		324								
		0BS STD	0030	2323 2324	36193 3620	247		00318	2.2	0159		324								
		OBS	0050	2324	36202	247		00510		, ر د ب		328								
		OBS	0069	2325	36222	248						331								
		STD	0075	2230	3663	253	39	00262	77	0231		313								
		085	0075	2230	36627	253						313								
		STO	0100	2100	3669	258		00224	44	0292		284								
		08S STD	0100 0125	2100 1990	36692 3665	258		00200	<i>.</i> ¬	0345		284								
		085	0125	1990	36646	260		00200	42	0345		258								
		STD	0150	1904	3659	262		00183	70	0393		238								
		OBS	0150	1904	36593	262	25					238								
		STD	0200	1839	3656	263		00172	02	0482		228								
		OBS	0200	1839 1814	36560 3655	263		001/8	. ,	05/7		228								
		STD STD	0300	1792	3654	264		00168		0567 0651		228								
		OBS	0300	1792	36536	264		00103		000		230								
		STD	0400	1755	3646	265	52	00165	8 8	0817	1.5	235								
		OBS	0400	1755	36462	265						235								
		STD	0500 0500	1699	3636	265		00163	47	0982		234								
		08S STD	0600	1699 1578	36359 3609	265		001586	าล	1142		234								
		085	0600	1578	36094	266		50150		1 2		210								
		STO	0700	1362	3576	268		00138	41	1291		154								
		085	0700	1362	35761	268						154								
		STD	0800	1126	3543	270		00118	19	1419		086								
		OBS STD	0800 0900	1126 0890	35431 3518	270		00096	77.	1526		086								
		085	0900	0890	35177	272		00090	(**	1720		014								
		STD	1000	0648	3501	275		00072	70	1611		935								
		085	1000	0648	35007	275						935								
		STD	1100	0524	3498	276		00058	64	1077		901								
		OBS	1100	0524	34977	276		00051	2.4	1720		901								
		STD 085	1200 1200	0492 0492	3499 34992	277		00054	34	1733		905								
		STD	1300	0460	3500	27		00050	30	1786		909								
		OBS	1300	0460	35003	277						909								
		STD	1400	0448	3500	277		00049	93	1836	14	921								
		OBS	1400	0448	35000	277	76				14	921								

CTRY ID.	SHIP	LATITUDE		GITUDE	MAR SDI	SDEN	STATION IGA	TIME	YEAR	CRUI		STATE	DN	DEPT TO BOTTO	DEPI	H 08	WAVE SERVATIONS	CDDS	CLDUD		51	ATION UMBER	
318007	EV	3744 N	+	217 W	115		11 02	_	_	6	04			503	_	-	3 4	x1	8 2	-	_	0050	
1 3 1 0 0 0 .	1 - 1	2,,,,,,,,,	1 -0.	"	1 * * *	WAT		WIND			AIR TE		r T	ļ	_	0 10	12141	1 ~ 1	1 012	1	1	0058	
						COLOR		392	ED ME		DRY	W	VIS	NO.	71	PECIAL							
						CDDE	(w) D	IR. C	R		BULB	BU	LB	DEPTH	12 CRZEI	(VA HUNS							
]	12 51	5 3	35	206	1	61 7	07									
	MESSENGR TIME C		ARD Yrs	DEPTH (m	1 1	2, 1	s */.	. s	IGMA-T		OMALY-XI		₹ △ D DYN. A x 10 ³	۸, این	DUND	02 ml/l	PO4-P µg = 61/1	TOTAL-P µg + et/1	NO2-N µg - at/l	NO ₃ =N yg = at/l	\$1 \O4-\$1 \u03b4-\$1	рН	200
																							7
	1	' ' !	sто '	0000	' 2	2328	3619	9 ' 2	477	00	3182	29	0000	o ' 1	5320	1	1	1	ŀ	ŀ			1 1
	005	5 01	BS	0000		2328	3618	39 2	2477						5320								
	009	5 01	Bs	0009		2213	3620)5 2	2512					1	5293								
	005		BS	T1375)448	3496	55 2	2773					1	4916								
			STD	1400)445	3496		773	0.0	00524	46		1	4919								
			STD	1500)434	3496		2774	0.0	00519	95		1	4931								
			STD	1750		408	3495		2776	0.0	00514	+6		1	4962								
	009		85	T1939		390	3494		2778					1	4987								
			STO	2000		387	3495		2778	0.0	00507	7 1		1	4996								
	005	_	B\$	T2429		349	3495	55 2	2782					1	5053								
			ST0	2500		340	3495	5 2	783	0.0	00475	6		1	5062								
	200		BS	T2900		277	3494		789					1	5104								
			STD	3000			3494	>															
	005	01	BS	3000	(3170	3493	38 2	7840														

										,													1
REFERENCE CLAY ID.	SHIP	LATITU	DE 1	LONGITUDE	PCTR N	MARSDEN SOUARE	STATION T	IME	YEAR	CRUISE		ATOR'S		DEPTH	OEFI	H ne	WAVE SERVATIONS	WEA-	CLOUD		2.	DOOR	
CDDE NO.	COOE	•	1/10	1 17	DOU!	10" 1"	MO DAY H	R,1/10		NO.	i	NUMBER		80110/	S'M PL	'S DIR	HGT PER SE	CODE	TYPE AMI		N	LIMBER	
31800	EV	3810	N (06240	W	115 82	11 02	039	1966		04			514	1 19	15	2 2	X1	0 3			0059	
						WA		VINO	BAR	>		MP. ℃	vis.	NO. 085.	SP	ECIAL							
						COLOR	TRANS. DIR.	DR		ER 1	DRY ULB	W ET BULB	CDDI	DEPTH	OBSER	2 NOIT AV							
						DT	SD 13	52		2 2	222	172	7	25									
	MESSENGE	CAST	CARD					1		SPECIFIC	· VOLU	ME 3	∆ D YN. M	7 50	DUND		PO4-P	TOTAL-P	NO2~N	NO3~N	51 0451		s
	TIME HR 1/10	NO.	TYPE	DEPTH	(m)	7 ℃	5 %.	510	T-AM	AHDM	ALY-XI	(0)° C	YN. M X 10 ³	- VE	LOCITY	O 2 m1/1	pg - 01/1	ug = et/1	µg = at/1	yg - et/l	yg - at/1	рН	Š
	1710							-															-11
	1	1 1	ST			2316	3620		481	003	145	3 (000	1	5317	'	'					,	
	0.3	9	085	00		2316	36195		481	0.00		,			5317								
			ST0	00 00		2315 2315	3620 36195		482 482	002	146	5 (031		5319 5319								
			STI			2315	3620		481	003	153	12 (1063		5321								
			085	00		2316	36195		481				. 02		5321								
			085	0.0	25	2316	36195	_	481					1	5321								
			ST			2316	3620		481	003	157	71 (1095		5322								
			085	00 00 C		2316 2316	36195 3620		481	003	165		158		5322								
			510 085	00		2316	36195		481 481	002	100	, ,	1750		5326 5326								
			STI			2316	3620	_	481	003	174	1 (237		5330								
			085	0.0	75	2316	36196		481						5330								
			085	00		2316	36196		481						5332								
			ST			2227	3655 36549		534	002	665	5 (110		5316								
			085 ST[01		2227	3663		534 594	002	2116	.1 (370		5316 5269								
			085	01		2030	36632		594	000		, ,			5269								
			ST	0 1	50	1951	3663	2	615	001	925	4 (421		5252								
			085	01		1951	36632		615						5252								
			STI	0 0 2 0 2		1844 1844	3658 36576		639 639	001	720)7 (1512		5229 5229								
			ST			1819	3655	_	643	001	696	7 (1297		5230								
			ST			1799	3653		646		681		682		5232								
			085	03		1799	36528		646						5232								
			STI			1777	3653		651	001	665	6 (1849		5242								
			OBS ST	04		1777 1725	36525 3643		651 657	001	645	. 1	015		5242 5242								
			085	05		1725	36429		657	001	.047	, 1	012		5242								
			ST			1610	3621		667	001	567	1	175		5221								
			OBS	06	00	1610	36213	2	667					1 :	5221								
			ST			1424	3587		682	001	437	0	326		5175								
			OBS ST	07		1424 1201	35868 3554		682 702	001	248	14	460		5175 5113								
			085	08		1201	35537		702	0.01	248		→ D(5113								
			ST			0948	3523		724	001	030	8	574		5036								
			085	09		0948	35226	2	724					1 :	5036								
			STO			0690	3500		745	000	798	13 1	665		4951								
			08s ST!	10		0690 0541	34995 3497		745 762	0.00	617	, ,	73/		4951 4908								
			085		00	0541	3497		762 762	000	617	1 .	736		4908								
			ST		00	0517	3502		769	000	555	6	795		4916								
			OBS	12		0517	35022	2	769					1	4916								
			ST			0473	3502		774	000	510	3	848		4915								
			OBS		00	0473 0455	35017 3502		774	000	4.0.		800		4915								
			5TI 0BS		00	0455	3502		776 776	000	1496		898		4924 4924								
			STI			0438	3502		778	000	483	3 1	947		4934								
			OBS	15	00	0438	35017	2	778						4934								

TABLE IV .-- Continued

EFERENCE BY IO. DE NO.	SHIP CODE	LATITUD		NGITUOE	DRIFT	MARSDEN SQUARE	0	ON TIA	Y	EAR C	ORIGIN	TATIO	N .	DEPTH TO BOTTOM	DEPTH	ORS	WAVE ERVATION	- 1	WEA- THER CODE	CLOUD		ST.	ODC ATION JMBER	
318007	FV	3835	1/10 N O	1/10 6258 W	+	115 82	11 (966	NO. 1	7	K	4800	S'MPL		HGT PER	EA		TYPE AM				
2 1/9 00 1	- 4	2032	14 0	0236 W	- 1		TER		12 1	_	AIR TE				-		2 2	- 1	X l	013	I		0060	
						COLO	TRANS.	OIR.	SPEED	BARO- METER	DRY	WET	VIS.	NO. OBS. DEPTHS	OBSER	ECIAL VATIONS								
						CODE	_		FORCE	(mbs)	BULB	BULE	·	DEFINS										
		,				OT	SD	10	520	322	222	17	8 7	26	<u> </u>		,							
	MESSENGR TIME	CAST	CARD	DEPTH 6	n I	1 %	S	٠/	SIGMA	L_T S	PECIFIC VOLU	ME AZ	₹ A D	sou	מאנ	O2 m1/l	PO4-P		TAL-P	NO2-N	NO3-N	SI O4-Si	рН	5
	HR 1/10	NO.	TYPE								ANDMALT-II	0,	x 10 ³	VELC	CITY		νg - σ1/l	9 لا	- 61/1	μg + at/l	μg - α1/1	μg = α1/l	p	c
		1				1																		
	07;	,	STO OBS	000		2320 2320	36	23 225	248 248		003134	. 7	0000		319									
	0 7 2	_	510	001		2319	36		248		003140	2	0031		320									
			OBS	001		2319		219	248		0032.0	-	0051		320									
			STO	002		2309	36.		248	5	003115	1	0063	15	319									
	00	2	OBS	002		2309	36		248						319									
			085 STD	002		2309 2309	36. 36.		248 248		003119	0	0094		320 321									
			OB5	003		2309	36		248		003119	U	0094		321									
			STD	005		2309	36		248		003125	4	0156		324									
			OBS	005		2309	36		248						324									
			STD	007		2309	36		248		003134	5	0235		328									
			OBS OBS	007		2309 2309	36	224	248						328									
			STO	010		2185	36		254		002545	0	0306		305									
			OBS	010		2185	36		254						305									
			STD	012		2040	360		259		002116	4	0364		272									
			OBS	012		2040	366		259						272									
			STO OBS	015		1960 1960	366		261 261		001937	8	0414		254 254									
			SID	020		1839	36		263		001712	2	0506		228									
			OBS	020)	1839	36	571	263			_		15	228									
			STD	0250		1817	36		264		001677		0590		230									
			STD	030		1795 1795	36! 36!		264 264		001655	7	0674		231									
			STD	040		1755	36		265		001642	2	0839		231									
			OBS	040		1755	36		265		001042	_	005,		235									
			STD	050		1673	36		266	1	001600	3	1001	15	225									
			OBS	050		1673	36:		266						225									
			STO OBS	060		1481 1481	359	96 960	267 267		001463	q	1154		178									
			STO	070		1248	35		269		001307	7	1293		113									
			OBS	070		1248	35		269						113									
			ST0	080		1007	35.		271		001067	7	1411		042									
			OBS	080		1007 0748		289	271		000000		1 = 0 /		042									
			STO OBS	090		0748	350 350		274 274		000833	8	1>06		958 958									
			OBS	094		0656	350		275						929									
			STD	100		0594	350		275		000649	3	1581		913									
			OBS	1000		0594	351		275						913									
			510	110		0524	350		276		300563	7	1641		902									
			OBS STO	1100		0524	350		276 277		000515	1	1695		902 897									
			OBS	120		0472	34		277		000015	1	1090		897									
			STD	130		0456	350		277		000496	2	1746		907									
			OBS	130		0456	35	005	277	5				14	907									
			STD	1400		0435	349		277		000490	7	1795		915									
			0BS STD	1400 1500		0435 0418	34		277		000479	0	1 44.4		915									
			085	150		0418	34		277 277		000479	J	1044		925 925									
						20	,		_ , ,	_					160									

	RENCE	SHIP	LATITU	106	LONGI	TUDE	0.14	MARS	DEN	STATIO	ON TIM		YEAR		GINATO			DEFTH TO	MAX. OEPTH	CRS	WAVE ERVATION:	WEA				NOOC STATION	
CODE	10. NO.	COOE	*	1/10	LONGI	1/10	INDC	10*		MO D			I CAR	CRUISE NO.	STAT NUA		RC	MOTTO	OF S'MPL'S		HGT PER 1	600				NUMBER	
31	8007	EV	3901	N	0631	19 W		115		_		_	966		048		4	938	15	15	4 3	x 2	03			0061	
									COLOR		WIT	SPEED	BARO		TEMP.	<u> </u>	V12.	NO. 085.	SPEC	JAL							
								-	COOE	(m)		FORCE	(mbs)	BUL	8 81	BJL	0	EPTHS	OFFICE	4110113							
			_						DT	50	14	525	317	2 22	8 1		7	38				1	1			1	_
		MESSENGE TIME	CAST NO.	C AR C	0 1	OEPTH (m)	Ť	*⊂	5 .	/**	SIGM	A-T	SPECIFIC V	OLUME Y-X107	₹ ∆ DYN. x 1	. M.		OCITY	0 2 ml/l	PO4-P ug = 01/1	101At-1		NO3-N pg - al/l	\$1 O4=1		S C
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												000	マンツ	J 1	233										
2.770					089	145	0	0397	34993																

REFERE	NC5					MARSDEN	STATION	TIANS		T 01	RIGINAT	OR'S		DEPTH	MAX.		WAVE	WEA-	CLOUD			2004
CTRY	ID. NO.	CDDE	LATITU	1/10 L	NGITUDE 1/10	SDUARE	STATION (GMT		YEAR	CRUISE NO.	STA	TION	7	OTTOM	OF S'MPL'S		ERVATIONS	THER	TYPE AM]	S	NODC TATION IUMBER
-	3007	EV	4005		6356 W	151 03	11 02		1966	1	050			4755		13	3 4	X2		1		0063
						COLOR		WIND	BARD)- <u> </u>	R TEMP		VIS.	ND. 085.	SPEC	IAL						
						CDDE	SD 14	FORCE	(mbs) 8U	LB	142	-	OBS. DEPTHS	DUJEKT	111111						
	1	MESSENGA				OT		522	32	2 18	_	$\overline{}$	7 △ D	38	UND	1	PO ₄ -P	OTAL-P	NO2-N	NON	SID4-Si	
		TIME HR 1/10	of ND.	CARD TYPE	DEPTH (m)	τ *c	s */	SIG/	MA-T	ANOMA	LY-X107	DY1	△ D N. M. 10 ³		DCITY	D2 ml/l		yg - al/l	μg + at/l	NO3-N		ρN
					2000	1110	2215	7.		000	25.04	1	000	1,0	000							
		16	1	08s	0000	1440	3315 33147		69	0032	2586	00	000		032							
				STD SBO	0010	1581 1581	3363 33627		76	0032	2027	0.0	032		084							
				SID	0020	1653	3407	24	93	0030	0412	00	064	15	113							
		0.0	2	0BS	0020 0025	1653 1675	34067		93						113							
				STO	0030	1696	3424	24	96	0030	170	00	94	15	130							
				08S 08S	0030 0040	1696 1763	34236		96						130							
				085	0049	1174	33806	25	73					14	959							
				STC OBS	0050	1282 1282	3423		85	002	1717	0:	146		001							
				OBS	0052	1000	3362	25	90					14	895							
				085 085	0056 0063	1273 1214	34516		09						981							
				085	0065	1249	34546	26	16					14	996							
				ST0	0075	1003	3424		37	0016	5775	0 -	194		907							
				OBS	0085	1270	3510	26	55				200	15	014							
				510 085	0100	1350 1350	3547 3546		67	0014	+077	0 4	232		048							
				085	0105	1324	3542		69						039							
				08S STE	0110	135 7 1276	3558° 3545		75 81	0012	2853	04	266		053							
				OBS	0125	1276 1210	3544° 3543		92	001	1704	^	297		027							
				STI OBS	0150	1210	35437		92	001	1104	04	271		008							
				08S	0171	1121 1071	3528° 3529		98	0016	0467	0.3	352		979							
				OBS	0200	1071	35288	3 27	07	0010	,,,,,,	0.	222	14	966							
				ST0	0250 0271	0979 0918	3523 3516		19	0009	9446	04	402		940							
				STO	0300	0812	3505	27	31	0000	3276	04	447	14	884							
				OBS STI	0300	0812	35045 3496		'31 '52	0000	5291	05	519		884							
				OBS	0400	0613	3495	7 27	52					14	821							
				085 085	0428 0440	0562 0570	34926		'56 '58						805							
				STI	0500	0539	3499	27	64	0009	252	0:	577	14	808							
				085 ST	-	0539 0492	3498° 3501		'64 '71	0004	4648	06	627		808							
				085 085	0600 0695	0492 0471	35000 3500		71						806							
				ST	0700	0444	3496	27	773	0004	4532	06	673	14	802							
				08s ST	0700	0444	34958 3500		773	0004	+254	0	716		802							
				OBS	0800	0440	3500	3 27	777					14	817							
				STE OBS	0900	0427 0427	3500 3499		778 778	0004	+242	0	759		829							
				STE	1000	0415	3500	27	79	0004	+200	08	೮01	14	840							
				08S	1000	0415 0405	3499 3499		779 80	000	4202	0.1	843		840							
				OBS	1100	0405	3499	2 27	80					14	853							
				STC OBS	1200 1200	0393 0393	3498 3498		80	0004	+225	08	885		864							
				STO	1300	0384	3497	27	80	0004	+267	09	928	14	877							
				OBS STE	1300	0384 0379	34977 3498		80	0004	+232	0.9	970		877							
				OBS	1400	0379	34980	27	81					14	892							
				STO OBS	1500 1500	0377 0377	3499 3499		83 83	0004	+205	10	012		908							
				002	1500	03/1	3477	. 21	0 2					14	708							

REFERENCE								т-			т.		MAX.					_			
TRY ID.	SNIP	LATITUE	LON	GITUDE	MARSDEN SOUARE	STATION TO	M.E. Y	EAR CI	ORIGINA RUISE S	TATION		TO	OEPTH OF		WAVE RVATIONS	WEA	CLOUD		5	NODC TATION	
-		•	1/10	1/10	10° 1°	MO DAY H			NO. N	UMBER		$\overline{}$	M PL	_	HGT PER SE		TYPE AM	+	N	UMBER	
318007	EV	4023	N 06	418 W	151 04			966	05			+573	15	14	3 3	X 2	0 3			0064	
					COLO		/IND SPEED	BARO- METER	DRY DRY	WET	VIS.	NO.	SPE	CIAL							
					coo	E (m)	FORCE	(mbs)	BULB	BULB		DEPINS	JOSERY	/A IIUNS							
,					DI	SD 15	S20	295	206	161	7	34								,	
	MESSENGR TIME 0	CAST NO.	C ARD TYPE	DEPTH (m)	1 °C	2 ./.	SIGMA	A-T SP	FECIFIC VOLU	AE ₹	△ △ N. M. 10 ³	SOUN	0	O2 m1/1	PO4-P	TOTAL-P	NO2-N	NO3-N	\$104-\$1	рН	Š
	HR 1/10	110.	TIPE				<u> </u>		MDW ALI - XII	,	103	VELOC	TITY		yg • α1/1	µg • at∕ī	n8 - 01/1	yg - at/1	yg = 01/1		c
J			670	0000	1570	2247	24.0	,	0021/0	_ ^	000	150							1		
	192		STD OBS	0000	1570 1570		248 248		003148	> 0	000	150 150									
			STD	0010	1570		248		003151	4 0	031	150									
			085	0010	1570		248					150									
	002		OBS STD	0014	1570 1625		248 248		003079	6 0	063	150 151									
			OBS	0020	1625		248		003079	0 0	065	151									
			OBS	0025	1650		249	5				151	13								
			STD OBS	0030 0030	1660 1660		249 249		003032	0 0	093	151 151									
			085	0040	1660		249					151									
			OBS	0045	1420	33955	253	6				150									
			085	0048	1420		257					150									
			STD OBS	0050 0050	1480		260		002031	2 0	144	150 150									
			QBS	0052	1490		259					150									
			OBS	0054	1445		259	9				150	63								
			OBS OBS	0058 0064	1475 1385		261 262					150 150									
			0BS	0066	1290		263					150									
			STD	0075	1270	3504	265	0 (001562	6 0	189	150	11								
			OBS	0075	1270		265				22.	150									
			STD	0100	1245 1245		267 267		001290	9 0	224	150 150									
			STD	0125	1172		269		001148	4 0	255	149									
			085	0125	1172		269	5				149									
			STD	0150	1108		270		001085	5 0	283	149									
			OBS STD	0150	1108		270		000974	3 0	334	149									
			OBS	0200	0979	35175	271		0007.1	, ,	234	149									
			STD	0250	0883		272		000886		381	149									
			STD	0300	0780 0780		273 273		000782	4 0	423	148									
			OBS	0350	0670		274					148									
			STD	0400	0611		275		000611	7 0	492	148	21								
			OBS STD	0400	0611 0525		275		000508		54.0	148									
			085	0500	0525		276 276		300508	· U	548	148									
			STD	0600	0480	3499	277	1 (000459	0 0	>97	148	01								
			085	0600	0480		277					148									
			STD OBS	0700 0700	0459		277 277		000440	9 0	642	148									
			STD	0800	0439		277		000426	4 0	685	148									
			OBS	0800	0439	35000	277	7				148	17								
			STD	0900	0430		277		000420	5 0	727	148									
			OBS STD	0900 1000	0430		277 277		000419	3 0	769	148									
			OBS	1000	0415	34997	277	9			,	148									
			STD	1100	0404		278		000416	7 0	811	148									
			OBS STD	1100 1200	0404 0396		278 278		000417	4 0	252	148									
			OBS	1200	0396		278		000417	• 0	853	148									
			STD	1300	0390		278		000416	0 0	895	148									
			OBS	1300	0390		278			, -	0	148									
			STD OBS	1400 1400	0384		278 278		000419	4 0	936	148 148									
			510	1500	0380		278		000421	4 0	978	149									
			OBS	1500	0380		278			,		149									

TABLE IV .- Continued

REFERENCE	SHIP				OCTR NA	SDEN JARE	TATE	ION T			ORIGIN	ATOR	'S	_	OEPTH	DEPTH		WAVE ERVATIONS	WEA-	CLOUD			NODC	
CTRY IO.	COOE	LATITU		LONGITUDE						YEAR		STATIO		18	OT OM	OF			CODE				UMBER	
	·	1022	1/10	1/10	1	1 0/	$\overline{}$	_	R.1/10	0//			ER	+	572	S'MPL		HGT PER SI		TYPE AM	+			
318007	Ev	4023	N	06418 W	15	\perp				966	<u> </u>				+573	34	14	3 3	X 2	7 8	1	1	0065	
						WA	-	_	VINO	BARG		_	v	18.	NO.	SPS	CIAL							
						COLOR	TRANS.	OIR.	SPEED	METE		BUI	T Cc		OBS.	OBSER	2 MOIT AV							
								15	S20	29	_	16	_	,	07									
		,				1	Ļ	117	320	27	200	Γ.,	<u>'</u>	\perp	0.7									
	MESSENGR	CAST	CARD	DEPTH	[en t	r *c	١,	٠/	SIGM	A _ Y	SPECIFIC VOLL		₹ A	D	sou		O2 ml/l	PO4-P	TOTAL-P	NO2-N	NO3-N	\$1 O4~\$i	pH	5
	HR 1/10	ĭ NO.	TYPE	DEFIN	0111		1	***	310111	^-'	ANOMALY-X	107	X 10		VELC	CITY	02111171	yg - 61/1	1/1a - gu	J/Io - QU	μg = at/	yg = al/(l Ph	c
									1			_		_										T
	205	5 1	085	001	1	1567	33	670	248	32Q		,			1	1		1	ı	1	l	1	'	11
			ST	002	0	1625																		
	205	5	OBS	002	8	1676	34	130	249	92					15	122								
	20 5	5	OBS	T150	1	377	34	956	278	30					14	907								
			ST	175	0	0362	34	95	278	31	000452	2			14	943								
			ST	D 200	0	345	34	95	278	3.2	000448	3 7			14	978								
	205	5	OBS	T213	1	0336	34	947	278	3 3					14	997								
			ST	250	0	306	34	94	278	35	000436	4			15	047								
	205	5	085	T267	1	292	34	930	278	36					15	070								
			5 T			0264	34		278	37	000426	2				115								
	205		085	329		0245		899							15	157								
	205	5	085	340	0	239	34	899	278	8 8					15	174								

Miles Section Miles Mi	EREI	NCE		T				MAR	SDEN	TAT	ור א זו	AA F		1	ORIGIN	ATO	2'8'		714	MAX.		WAY	/F	T ,,,		CLOUD	_				
Mode 1960 1970	Т	10.	CODE	L	ATITU		NGITUDE E	SOL	IARE				YEAR	CRUIS	E 9	TAT	ION] to	o		1 00.	ERVA	TIONS	TH.	1ER	CODES	_		STATE	ON	
	+		Ev	1	0.6.1		1710		+			$\overline{}$	106	+-	+		ARER				_	$\overline{}$		^		-	1	_		-	
	rlo	001	C V	1 "	041	14 06	9435 W	101	\perp								* 1	_		15	1.2	6	4	1	(2)	0 3	1	1	00	66	
The color Section Se									_			SPEED		V+		,	VIC	08	S. .	SPE	CIAL										
									CODE	(m)	DIR.	FORC	E lmb	s)	BULB	BL	ULB	DEPT	tHS ,	OBJEKT	/ A 110113										
STO 0000 1870 3476 2493 0030342 0000 15162 15165 1									DT	SD	15	520	2 2	31 .	206	1	67 7	2	8												
STO 0000 1870 3476 2493 0030342 0000 15162 15165 1			MESSEN	GR C	AST	CARD	DEPTH Imi	,	n n	,	•/	90	M AT	SPECIFI	C VOLU	ME	₹ Δ [2	sour	ND	00 01/1	PC	04-P	101A	L-P	NO ₂ -N	NO3-N	\$104	-5i	-14	S
232			HR 1/	10]	NO.	TYPE	Derivi uni			,		310	m^-1	ANOA	AALY-XI	97	x 10 ³		/ELO	CITY	0211171	hå	- 01/1	µ8 - €	171	ug - at/l	μg - αt/	h8 -	ot/I	prt	c
232		Ī																							T						
STD ODIO 1870 3475 2492 ODIO 15184 STD ODIO 1870 34745 2492 ODIO 15185 STD ODIO 1870 34745 2492 ODIO 15185 STD ODIO 1870 34745 2492 ODIO 15185 STD ODIO ODIO 15186 STD ODIO ODIO ODIO 15186 STD ODIO														00	3034	2	000														
OBS			2.	32										0.0	307.7		003														
STO 0020 1870 3475 2492 0030482 0041 151,85 151,85 085 0025 1870 34745 2492 151,86 151,86 151,86 151,86 0030 1870 34745 2492 0030516 0091 151,87 151,89 151,86 0091 151,87 0085 0030 1870 34745 2492 151,87 0085 0040 1870 34745 2492 151,87 0085 0040 1870 34745 2492 151,87 151,89 151,87 0085 0050 1420 3491 2609 0019448 0141 150,55 0085 0075 1280 35315 2670 0085 0075 1285 3533 2670 0085 0075 1285 3533 2670 0085 0075 1285 3533 2670 0085 0075 1285 3533 2670 0085 0075 1285 3533 2670 0085 0075 1285 3533 2670 0085 0075 1285 3533 2670 0085 0075 1285 3533 2670 0085 0075 1285 3533 2670 0085 0075 1285 3533 2670 0085 0075 1285 3533 2670 0085 0075 1285 3533 2670 0085 0075 1285 3533 2670 0085 0075 1285 3533 2670 0085 0075 1285 3533 2670 0085 0075 1078 3530 2707 0085 0155 1135 3536 2707 0085 0155 1135 3536 2707 0085 0150 1078 3530 2707 0085														00.	3044	7	003	-	_												
OBS							0020							00	3048	12	006														
STD 0030			0.0	02																											
OBS 0030 1870 34745 2402 15187 OBS 0040 1870 34745 2402 15189 STD 0050 1420 3491 2609 0019448 0141 15055 OBS 0070 1280 35315 2670 15017 15017 STD 0075 1285 35330 2670 15020 15018 OBS 0085 12175 35339 2670 15018 15018 OBS 0085 1010 1220 3529 2679 0012919 0216 15002 OBS 0100 1220 3529 2679 0012919 0216 15002 OBS 0100 1220 3529 2679 0012919 0216 15002 OBS 0100 1220 3529 2679 0012919 0216 14977 OBS 0120 13030 2670 0010825 0246 14977 OBS<														0.0	2051	۷	000														
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				S	TD O	20	0880	3186		+72	003	240	5 0	072		822								
		002	2	OB:		020	0880	31860		+72						822								
				OB:)25)30	0740 0721	31950 3206		+99 510	002	874	a ^	102		770 765								
				OB:		30	0721	32060		510	002	J , 4	, 0	- 02		765								
						050	0509	3249	25	70	002	304	8 0	154	14	689								
				OB:)50)75	0509 0228	32490 3300		570 537	001	h6 0	1 0	204		689								
				0B:		775	0228	32995		37	001	000	1 0	204		580 580								
				08	S 0	080	0215	33015	26	39					14	575								
						100	0377	3383		90	001	168	0 0	239		660								
				0 B S		125	0377 0439	33830 3403		90 99	001	185	9 0	268		660 692								
				OB:		125	0439	34025		99	001	000	, ,	-00		692								
				OB:		132	0452	34065		701						699								
				OBS		138 150	0508 0508	34255 3428		710	000	076	5 0	293		726 728								
				OB:		150	0508	34275		711	000	,,,	, ,	273		728								
				S.	TD 0	200	0500	3446	27	727	000	88	5 0	339		736								
				0B3		200	0500 0503	34455 34510		727 731						736								
				OB:		220	0619	34965		752						740 794								
				S.	TD 0	250	0560	3484		750	000	526	1 0	375		774								
				OB:		250	0560	34843		750						774								
				OB:		269 300	0580 0538	34837 3479		747 748	000	646	7 0	407		785 7 72								
				OBS		300	0538	34788		748	000	J + 0	, ,	.01		772								
				OB:		310	0520	34886	27	758						768								
				089 089		318 349	0556 0549	34907 34928		756						784								
						+00	0497	3494		758 765	000	+97.	2 0	464		787 774								
				089	S 04	00	0497	34939	27	65					14	774								
				SI		00	0438	3490		69	000	+66	9 0	513		766								
				0B5		00	0438 0440	34902 3494		69 71	0004	154	3 0	559		766 783								
				OBS	5 00	00	0440	34936	27	771	000		- 0	- 27		783								
				SI		700	0428	3495		74	000	440	1 0	603		795								
				0B5		700 300	0428 0421	34950 3495		774	000	441	0 0	64.7		795 809								
				OBS		300	0421	34951		75	000	I	0	647		809								
					TD 09	900	0414	3496	27	776	000	438	7 0	691	148	823								
				089 S1		300	0414	34956		776	0.00	. 2 5	2 0	725		823								
				OBS		000	0410	3497 34967		'77 '77	000	+25.	5 ()	735		838								
				S	TD 1	0.0	0399	3497		78	000	+31	1 0	778		850								
				OBS	5 1	00	0399	34967		78					148	850								
				S1 089		200	0386 0386	3497 34967		80	000	+24	1 0	821		861								
						300	0386	34967		80 80	000	+26	1 0	864		861 875								
				OBS	5 13	300	0380	34966	27	80					148	875								
				SI		00	0376	3497		81	0004	+29	7 0	906										
				0B3		00	0376 0370	34966 3497		'81 '81	000	120	7 0	949		891 905								
				089		00	0370	34967		81	000		, ,	- 7 7		905								

																	,		
REFERENCE	SHIP	LATITU	05 10	MCITUOE TE	MARSOEN SOUARE	STATION TH	YEAR		NATOR'S		OEPTH OT	MAX.	089	WAVE	WEA-	CLOUD			NOOC MATION
CODE NO.	COOF	·	1/10	MGITUOE		MO DAY HE		NO.	STATION		MOTTOR	S'MPL'S		HGT PER SI	COOR	TYPE AM	_		UMBER
31800	7 EV	4152		5543 W	151 15		98 1966	0	55	\neg	0667	0.7	12	7 4	X 2	1			0069
,,	1 1				WAT		IND BAR	A ID T	EMP, °C		NO.	1		17171	1 /	, 0, 5	F	'	0007
					COLOR	TRANS. OIR.	SPEED MET	ER ORY	WET	CODE	200		ATIONS						
					DT	SD 13	S35 21		161	7	20								
					101	30 13	333 21	1 112	1	1.	_		-	_			ſ		
	MESSENGR TIME 0	CAST NO.	CARD	OEPTH (m)	τ °c	s *4.	SIGMA-T	ANOMALY-	UME 0	YN. M	. VELC	JND	02 ml/l	PO4-P	TOTAL-P pg - a1/l	NO2-N ug - ol/l	NO ₃ -N µg - o1/1	\$1 O4-\$i µg - ol/I	рн с
	HR 1/10			ļ					+	X 10 ³	-			70	74	20	pg - 0.01	7,	
	1		STD	0000	0920	3249	2514	00283	30 0	000	1 1 4	842		1	!			l	
	098		085	0000	0920	32485	2514	00200	20 (000		842							
	0,0		STD	0010	0919	3249	2514	00283	22 0	028		843							
			OBS	0010	0919	32485	2514					843							
			STD	0020	0917	3249	2515	00283	09 0	057	14	844							
	001		085	0020	0917	32485	2515					844							
			085	0025	0880	32535	2524	0-0/7				832							
			STD	0030	0840	3255 32550	2532 2532	00267	16 (084		818							
			STD	0050	0840 0632	3309	2603	00199	65 (131		818							
			260	0050	0632	33090	2603	001))	0, 0	- 51		747							
			STD	0075	05 75	3341	2635	00169	58 0	177		732							
			OBS	0075	0575	33405	2635				14	732							
			085	0095	0573	33605	2651				14	737							
			STD	0100	0549	3367	2658	00147	40 0	217		729							
			085 085	0100	0549 0477	33665 33740	2658					729							
			STD	0111	0477	3378	2673 2675	00131	23 0	251		702							
			085	0125	0480	33780	2675	00131	30 0	201		706							
			OBS	0130	0478	33780	2676					706							
			OBS	0131	0500	33860	2679					716							
			STD	0150	0503	3387	2679	00127	76 0	284		721							
			OBS	0150	0503	33865	2679				14	721							
			STD	0200	0499	3415	2702	00106	60 0	342		731							
			OBS	0200	0499	34149	2702			4.0		731							
			STD	0250	0501	3441	2723	00087		391		744							
			STD	0300	0503 0503	3460 34597	2737 2737	00074	74 C	432		755 755							
			STD	0400	0460	3477	2756	00058	13 0	498		756							
			085	0400	0460	34768	2756	30000		. , 0		756							
			STD	0500	0447	3484	2763	00052	19 0	553		768							
			085	0500	0447	34842	2763					768							
			STD	0600	0448	3485	2763	00052	98 0	606	14	786							
			085	0600	0448	34847	2763					786							
			OBS	0660	0445	34867	2765				14	794							

												_ '		, 011			,										
REFERENCE	SHIP				± #	MAR		STAT	ION TI	ME			ORIGI	NATO	R"S	I	OEPTH	MAX. DEPTH		WAVE		WEA-	CLOUD			NOOC	
CODE NO.	COOE	LATITU	OE 1/10	LONGITUOE	DAM	SON.			GMTI	R 1/10	YEAR	Č	NO.	STATI		-	OT MOTTOS	OF S'MPL'S	DIR.	SERVATION		CODE	TYPE AM	3	2	UMBER	
31800	7 EV	4217		065580W		151	++	_		31	196	6	0	56		1	0225	02	15	7 3		X 2	0 3	_		0070	
' '	1 1		'		1 1		WAI	ER	W	IND	. B4	ARO-	AIR T	EMP.			NO.	SPECI				_		1	1	00.0	
							COLOR	TRANS.	DIR.	SPEED	M	ETER			ET C	VIS.	OBS. OEPTHS	OBSERVA									
							DT	50	13	S40	•	90		+	\rightarrow	8	23		\dashv								
	MESSENG		CARO	OEPTH	f \	,	℃	٦,	٠/	-			SPECIFIC VOL	UME	₹ Z OYN	0	sou	INO .	21/1	PO4~P	10	OTAL-P	NO2-N	NO3-N	SI O4-Si		S
	HR 1/10		TYPE	CEPIN	um j			Γ,	···	3167	MA-T		ANOMALY-	x197	X	103	VELC	CITY	D3 ml/l	μg = e1/		vg - el/l	μg - σI/I	yg - al/l	µg - a1/1	pН	Ċ
																					1						11
	13	1	ST OBS				691 691	32	25 254		01		00296	05	00	00		828 828									
	13	1	5T				B90	32			01		00296	07	00	30		829									
			OBS	001	0		890		254	25	01							829									
	0.0	^	ST				885	32			02		00295	50	00	59		829									
	00	U	085 085				885 884		254 254		02							829 830									
			ST				880	32			02		00294	93	00	89		B29									
			085				880		254		02						14	829									
			OBS				693		130		19							756									
			OB5				660 547	32	380		43		00231		01	Z. T		748									
			0Bs				547		530		69		00231	00	ÛΙ	41		705 705									
			085				458		875		06							675									
			085				400		045		26							654									
			ST	0 007	5	0	399	33	14	26	33		00171	00	01	92	14	655									
			0B5				399		135		33							655									
			OBS				395		150		34							655									
			085 085				366		255 390		56							645									
			085				420		695		75							649 675									
			ST				422	33			82		00124	85	02	29		678									
			085				422	33	782		82							678									
			OBS	010	В	0	423	33	831	26	86						14	680									
			OBS				459		964		92							697									
			085				500		109	_	99							718									
			ST				501	34			01		00107	28	02	58		720									
			085				501	_	132		01							720									
			OBS ST				502	34	167		703		00093	70	0.2	83		721 762									
			085				585		448		16		00093	17	02	ری		762									
			5.7				562	34			744		00067	26	03	23		765									
			OBS				562		775		44							765									

															1 44 4 9	T							,
REFERENCE	SHIP	LATITU	OF	LONGITUOE		JARE	STATION	TIME	YEAR	CAUISE	RIGINA	TOR'S		DEPTH	MAX. OEPTH	OBS	WAVE ERVATIONS	WEA				NODC	
COOE NO.	CODE	•	1/10	1/10	10*	11.	MO DAY	HR,1/10		NO.		UMBER		BOTTOM	OF S'MPL'S	DIR.	HGT PER 5			T		NUMBER	
31800	7 EV	4700	ION	048000W	149	78	11 06	161	1966		057	7	-1	0146	01	00	2 2	X6	0 3			0071	
' '	' '				' '	WAT	TER	MIND	BAR	O- A	IR TEM	P. ℃	VIS.	NO.	CDE	CIAL					,		
						COLOR	TRANS OIR.		M ET		IRY JLB	W ET RULB	CODE	O8S.		ATIONS							
						DT	50 05	S S 2 O	_	4 0	67	067	5	14									
							1	1000		_			Δο	T-			T						Τ,
	TIME	T HO.	TYPE	DEPTH	m) 1	. _C	s */	SIG	MA-T	ANOMA		7 0	YN. M X 10 ³		OND YTIOC	02 ml/l	PO4-P µg = 01/(101AL-P		NO3-N yg - al/l	\$1 O4- 99 - al.		ç
	HR 1/10						_					+		+			1		-			+	+
	I	1	ST	o o o	0 ' 0	572	3240	25	56	002	4379	5 0	000	14	705		1	}	1	1	ł	'	1 1
	16	1	085			572	32399	25	56					14	705								
			ST			562	3243		59	002	407	1 0	024		703								
			OBS)562	32426		59						703								
	00	0	ST OBS	D 002 002)562)562	3243 32426		59	002	408	1 0	048		705								
	00	U	085			528	32611		77						694								
			ST			529	3270		84	002	1689	5 0	071		696								
			OBS	003)529	32698		84						696								
			OBS	003	7 (294	32446	25	88					14	595								
			OBS	003	9 (351	32986	26	26					14	627								
			OBS	004	3 (118	32820		31					14	523								
			085			0153	33028	3 26	45					14	542								
			ST			0010	3315		64	001	404	5 0	107		471								
			OBS	005		0010	33152		64						471								
			OBS			040	33334		80						460								
			ST			0000	3350		92	001	1453	3 0	139		484								
			OBS			0000	33497 3381		92	000	9356		165		484								
			ST OBS			0050	33806		14	000	7770	5 (100		516								
			085			093	33883		17						539								
			0						_														

REFE	RENCE	SHIP				- E	MAR			ION T				ORIGIN	ATOR'S		DEPTH	MAX. DEPTH		WAVE		WEA-	Crono			NOOC	
CODE	10. NO.	CODE	LATITU	1/10	LONG	NAME OF THE POURS	sou			GMTI		YEAR			STATION NUMBER		BOTTO	0.5		ERVATIO		CODE	TYPE AM			NUMBER	1
-	8007	Ev	4.700		04.	7440W	10'	1			IR,1/10	1066	+			-		3 mr L 3			31 A						1
1 21	0001	_ v	4700	I NO	04	7440W	149	WA			177	1966	1	0.5			0175	01	00	3 2		X6	0 3	I	- 1	0072	:1
								COLOR	т —		SPEED	BAR MET		ORY	WET	ZIV	NO.	SPEC									
								CODE	(m)	OIR,	FORCE	4-1-		BULB	BULB	1000	DEPTHS	OBSERV	A IIUN S								
								DT	SD	05	\$20	15	9	067	06	7 5	17										
		MESSENG TIME HR 1/10	of NO.	CAR		DEPTH Imi	Т	*c	S	٠/٠.	SIG	MA-T		CIFIC VOLL	107 0	E △ O YH. M X 10 ³		UNO	O2 ml/l	PO4-		OTAL-P	NO2-N µg - a1/1	NO3-N NO - 84	SI 04-		200
									-																		
			_		TD '	0000		550	32		25		C	38220	34 (3000		698									
		17	7	OB	_	0000		550		565	25		_					698									
				08	TD	0010		545	32	560		72	U	02287	/6 (0023		698									
					1D	0020		523	32			74	^	02268	12 /	0046		698									
		0.0	10	OB		0020		523		555		74		102200	30 (1046		690									
				OB		0025		527		620		78						694									
					TO	0030		524	32			78	0	02225	53 (0068		693									
				OB	5	0030	0	524	32	615	25	78						693									
				OB		0034		505		705		88					14	687									
				OB		0041		241		630		07					14	575									
				OB		0043		303		955		27						607									
				ОВ		0046		099		575		12						512									
					TD	0050		032	32			37	C	01660)2 (0107		456									
				0B 0B		0050		032		805 065		37						456									
				08		0054		1013		445		159						452									
				OB		0059		044		300		78						459									
					TD	0075		017	33			92	C	01138	88 (142		477									
				OB		0075		017		495		92	·	,01-50	, ,	, - , -		477									
				S	TD	0100	C	1040	33	72		07	С	00995	55 (0169		510									
				08		0100		040		720		0.7					14	510									
					TD	0125		103	33			16	C	00918	39 (193	14	545									
				ОВ	-	0125		103		870		16						545									
					TD	0150		198	34			31	C	00778	32 (0214		595									
				ОВ	5	0150	0	198	34	145	27	31					14	595									

REFERENCE	SHIP			NGITUDE ADDITION	MARS	DEN	STATION TIME		IME			DRIGINATOR'S		'5	DEPTH	MAX.		WAVE ERVATIONS	WEA-	CLDUD			NDDC	
CTRY ID.	CDDE	LATITU		NGITUDE	SDU			GMTI		YEAR	CRUI		STATION NUMBER		BOTTON	DF	1 000		CDDS	CODES			UMBER	
		/ 700	1/10	7/10 =	10"		MO		_	101	+	+		EK		3 M/L		HGT PER S	LA .	TYPE AM	1		\rightarrow	
31/8007	3 1 8007 EV 47000		04 04	+7310W	149				187	1966	<u>ى</u> ــــــــــــــــــــــــــــــــــــ	05			0224	0.2	00	3 2	X6	0 3		1	0073	
							ER WIND		BAR				VIS.	ND.		CIAL								
						CDLOR	TRANS.	DIR.	OR FDRC	4-1		BULR B		T COD	DEPTHS	OBSERV	ZNDΠΑ							
						DT	SD	05	535		51	1 067		57 5	20									
				1					-		1				1		1		1		Γ	Г		
	MESSENGR CAST		CARD	DEPTH (m)	r *c		s %. sig		MA-T		FIC VOL		NYN. M	SD.	DCITY	02 ml/l	PD4-P µg = 01/1	TOTAL-P	NO2~N µg = a1/l	NO3-N vg - at/1	SI D4-Si yg - at/l	рН	Š	
	HR 1/10	HR 1/10									-			x 10 ³				7,	24	74 - 401	pg = 01/1	74 - 0		1
				1	0542 0542		0.244				١				. , ,	!			-		l			
			STD	0000			32			64	00	2362	22	0000	-	694								
	18	1	OBS STD	0010	0513 0513 0535		32				0.0	12346	40	0024		683								
			085	0010						65	0.0	002340		002.		683								
			STD	0020			32			85	0.0	216	51	0046		697								
	000)		08S 0020		0535		710		85	00210					697								
			OBS	0025	0533			725		86						698								
			STD	0030	0518		32			90	00	211:	37	006		693								
			OBS	0030	0518				25	90						693								
			OBS	0033	0	508		805		95					14	690								
			OBS	0035		1430		725		97						656								
			oBs	0040		400				2626					14649									
			OBS	0042	0306		970		28		015.	0.1	010		4608									
			STD OBS	0050		056	33	_	05 264 20 269 50 271		0015	11341	91	0104		499								
			085	0058		040		520								1500								
			OBS	0062		059		760								513								
			OBS	0065		040		750								505								
			STD	0075	0075		33			716	0.0	091	28	0139		1524								
			OBS	0075	0	075	33	855	27	716					14	+524								
			STD	0100	0	132	33	99	2 1	723	0.0	0850	02	015	7 14	4555 4555								
			OBS	0100	0	132	33	985		723														
				0110						730						+572								
			OBS	0112		1209		205		735						+594								
			STD	0125		224	34			738	00	071	44	0176		604								
			OBS	0125		224		255		2738		066	2 2	010		14604								
			STD OBS	0150		273	34			744	0(066	22	0194		631								
			STD	0200		1273	34	380 45		744 747	0.0	0634	42	0226		631								
			OBS	0200		1293		٦) 445		747	0(,005.	72	0220		648								
			003	0200	_	2,,	7	. 47	2															

REFERE CTRY CODE	NCE 10. NO.	SHIP	LATITUO)E	LONGITUOE	MARS SOU	ARE	ŀ	ON TI		YEAR		ORIGINATO: CRUISE STATI			DEPTH TO BOTTOM	MAX DEPTH OF S'MPL	08:	WAVE SERVATIONS	WEA- THER CODE	CLOUD		51	IODC ATION UMBER	
318	3007	ΕV	4700		047150W	149	77				1966	1	06	0		0493	04			Х6				0074	
ال د	,001	- 4	4100	014	04/130#	1 7 7 7	WAT			סאוי			AIR TEA			NO.	_		12151	1 ^0	1 013	1	'	0074	
							COLOR	TRANS.	OIR.	SPEED	METE	R	ORY	WET	CODE	OBS.		VATIONS							
							CODE		O IR.	FORCE	(mbs	3	BUL8 6		\perp	DEPTHS									
							DT	SD	05	S35	26	1	1 067		5	20									
		MESSENGR CAST TIME OF NO. HR 1/10		CARO	DEPTH (m)	τ	7 °C		s */. sic		AA-T	A-T SPECIFIC VOLUME		ME C	∆ 0 YN, M, X 10 ³	. VELC	DCITY	O 2 ml/l	PO4-P pg = 01/1	TOTAL-P yg - ot/l	NO2-N µg = al/I	NO ₃ -N μg - al/l	51 O4-51 yg - at/1	рΗ	200
							0558 0558 0548 0548 0542								_										11
				ST					32825 2 3289 2 32885 2		2591 2591 2597 2597		0021024		1000	14705									
	198		3	08s																					
				OBS	-										021										
				ST							98	0020416		6 (0041		703								
		000)	085	0020		0542				598		20.1		, , ,		703								
				OBS	0025	0	0547		32905		99						706								
				ST	-		529	3296		26	2605		0019757		061	14	700								
				085	0030		529		955	26							700								
				OBS	0037		380		945	26							639								
				OBS OBS	0038		411		455	26							659								
				ST		0252 0261			505	26		0.0	1080	5 (092		594 601								
				085	0050		261	3381 33805 34055 34010			2699 2717		0010805		10 72										
				085	0054		284										14601 14615 14598 14606 14595								
				085	0062		243			2717															
				OBS	S 0070		254	3415		2727						14									
				STD 0075		0.	0227		14	27.	28	0008051		1 (115	14									
			OBS		0075			_	135	27.						14	595								
				ST			322	3448					0006310		133		645								
				OBS	0100	0322			475	27					1.		645								
				ST OBS			367	345	57 570	27	-	0.0	0604	0 (149		669								
				ST			0367 0410			27		0.0	05/3	-, ,	11.2		669								
				OBS				340	585 585	27		00	0563	2 (1163		693								
			ST					34		27		0.0	0529	3 (191	14691									
				085			423		755	27		00	UJET	, (1 2 7 1		14708								
				ST			434	348			2762		0505	1 (217		4721								
				ST	D 0300	0442		34	34	27	64	00	0496	7 (242		733								
				OBS	0300	0.	442	34840		27	64					14	733								
				ST			449	348		27		00	0511	4 (1292	14	753								
				OBS 0400 OBS 0450			0449 0450		845	27							753								
						0			350	27	63					14	762								

CDDE		NGITUDE NGITUDE	MARSOEN SQUARE	STATION THE			ATIDN	DEPTH DEPTH	OBS	WAVE ERVATIONS HGT[PER] SI	WEA- THER CODE	CLOUD		S	NODC TATION UMBER
514	1/10	1/10		\rightarrow		 	7711011	3 MFL			^		-		
EV	47000N 04	+7000W	149 77		10 1966			097 10	00	3 3	X2	0 3			007
			WAT		SPEED BAR		VIS,	NO. SPI	CIAL						
			COLOR	TRANS. DER.	OR IMB		BULB CODE	EPTHS DESER	VATIONS						
			DT	SD 05	520 26		083 6	21							
		T	1	30,00	1	 	7 4 5			T				T	
MESSENGR TIME OF HR 1/10	NO. TYPE	DEPTH (m)	t ℃	s ./.	SIGMA=1	SPECIFIC VOLUM	£	VELDCITY	D ₂ ml/l	PO4-P µg = 01/1	TQ1AL=P ug = 01/I	NO3-N vg - 01/1	NO3-N yg - 01/1		ρH
- 1	1		0.27	222				1							
210	STD	0000	0626	3324	2615	0018749	0000	14738							
210	OBS	0000	0626	33235	2615	001817	2012	14738							
	STD	0010	0710	3346	2621	001817	0018	14776							
	085	0010	0710	33455	2621	001/7/	2021	14776							
001	STD	0020	0743 0743	3371 33705	2636	0016760	0036	14794							
001	085				2636			14794							
	OBS	0025	0789 0800	33835 3393	2640	0015.00	0053	14814							
	STD	0030	0800	33930	2646	0015889	0052	14820							
	SID	0050	0492	3397	2646	001176	00.00	14820							
					2689	001176	. 0080	14701							
	OBS	0050	0492	33970	2689			14701							
	OBS	0062	0576	34350	2709	000757	010:	14743							
	STO	0075	0517	3457	2734	000757	0104	14724							
	OBS	0075	0517	4570	2734	2225	0177	14724							
	STD	0100	0472	477	2754	0005640	0121	14712							
	OBS	0100	0472	4765	2754	000530	0101	14712							
	STO	0125	0456	3478	2757	0005383	. 0134	14710							
	OBS	0125 0150	0456 0450	34780 3481	2757	200535	01/0	14710							
	STO		0450	34805	2760	0005156	0148	14712							
					2760			14712							
	OBS	0150				000470	0173								
	STD	0200	0439	3485	2764	000479	0172	14716							
	STD OBS	0200	0439 0439	3485 34845	2764 2764			14716 14716							
	STD OBS STO	0200 0200 0250	0439 0439 0432	3485 34845 3485	2764 2764 2765	0004730	0196	14716 14716 14721							
	STD OBS STO STD	0200 0200 0250 0300	0439 0439 0432 0425	3485 34845 3485 3486	2764 2764 2765 2767		0196	14716 14716 14721 14727							
	STD OBS STO STD OBS	0200 0200 0250 0300 0300	0439 0439 0432 0425 0425	3485 34845 3485 3486 34855	2764 2764 2765 2767 2767	0004730 0004668	0196	14716 14716 14721 14727 14727							
	STD OBS STO STD OBS STD	0200 0200 0250 0300 0300 0400	0439 0439 0432 0425 0425 0414	3485 34845 3485 3486 34855 3491	2764 2764 2765 2767 2767 2772	0004730	0196	14716 14716 14721 14727 14727 14739							
	STD OBS STO STD OBS STD OBS	0200 0200 0250 0300 0300 0400	0439 0439 0432 0425 0425 0414 0414	3485 34845 3485 3486 34855 3491 34907	2764 2764 2765 2767 2767 2772 2772	0004730	0196	14716 14716 14721 14727 14727 14739 14739							
	STD 0BS STD SBS STD 0BS STD	0200 0200 0250 0300 0300 0400 0400 0500	0439 0439 0432 0425 0425 0414 0414	3485 34845 3485 3486 34855 3491 34907 3491	2764 2764 2765 2767 2767 2772 2772 2772	0004730 0004668	0196	14716 14716 14721 14727 14727 14739 14739							
	STD OBS STO STD OBS STD OBS STD OBS	0200 0200 0250 0300 0300 0400 0400 0500	0439 0439 0432 0425 0425 0414 0414 0401	3485 34845 3486 3486 34855 3491 34907 3491 34907	2764 2764 2765 2767 2767 2772 2772 2773 2773	0004730 0004668 0004260	0196 0220 0264 0307	14716 14716 14721 14727 14727 14739 14739 14750 14750							
	STD OBS STD OBS STD OBS STD OBS STD OBS STD	0200 0200 0250 0300 0300 0400 0400 0500 0500	0439 0439 0432 0425 0425 0414 0414 0401 0401	3485 34845 3486 34855 3491 34907 3491 34907	2764 2764 2765 2767 2767 2772 2772 2773 2773 2775	0004730	0196 0420 0264 0307	14716 14716 14721 14727 14727 14739 14739 14750 14750 14762							
	STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS	0200 0200 0250 0300 0300 0400 0400 0500 0500 0600	0439 0439 0432 0425 0425 0414 0401 0401 0389 0389	3485 34845 3486 3486 34855 3491 34907 3491 34907 3491	2764 2764 2765 2767 2767 2772 2772 2773 2773 2775 2775	0004730 0004668 0004260 0004214	0 0196 0 0220 0 0264 0 0307 0 0349	14716 14716 14721 14727 14727 14739 14739 14750 14750 14762 14762							
	STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS	0200 0200 0250 0300 0300 0400 0400 0500 0500 0600 0600	0439 0439 0432 0425 0425 0414 0414 0401 0401 0389 0389	3485 34845 3486 3486 34855 3491 34907 3491 34907 3491 34907 3492	2764 2764 2765 2767 2767 2772 2772 2773 2773 2775 2775 2776	0004730 0004668 0004260	0196 0220 0264 0307 0349	14716 14716 14721 14727 14727 14739 14739 14750 14750 14762 14762							
	STD 0BS STD 0BS STD 0BS STD 0BS STD 0BS STD 0BS	0200 0200 0250 0300 0400 0400 0500 0500 0600 0600 0700	0439 0439 0432 0425 0425 0414 0401 0401 0389 0384 0384	3485 34845 3485 3486 3486 3491 34907 3491 34907 3491 34907 3492 34922	2764 2764 2765 2767 2767 2772 2772 2773 2773 2775 2775 2776 2776	0004730 0004668 0004260 0004214 0004175	0 0196 0 0220 0 0264 0 0307 0 0349 0 0390	14716 14716 14721 14727 14727 14739 14739 14750 14762 14762 14776							
	SID OBS STO OBS SID OBS SID OBS SID OBS SID OBS SID OBS	0200 0200 0250 0300 0400 0400 0500 0500 0600 0600 0700 0800	0439 0439 0425 0425 0414 0401 0401 0389 0389 0384 0378	3485 34845 3486 3486 34855 3491 34907 3491 34907 3492 34922 34922	2764 2764 2765 2767 2767 2772 2772 2773 2773 2775 2775 2776 2776 2776	0004730 0004668 0004260 0004214	0 0196 0 0220 0 0264 0 0307 0 0349 0 0390	14716 14716 14721 14727 14727 14739 14739 14750 14750 14762 14762 14776 14776							
	STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS STO OBS	0200 0200 0250 0300 0300 0400 0500 0500 0600 0600 0700 0700 0800 0800	0439 0439 0425 0425 0414 0414 0401 0389 0389 0384 0378	3485 34845 3485 3485 34855 3491 34907 3491 34907 3491 34907 3492 34922 34922 34923	2764 2764 2765 2767 2767 2772 2772 2773 2773 2775 2775 2776 2777	0004730 0004668 0004266 0004214 0004175 0004099	0196 0220 0264 0307 0349 0390 0431	14716 14716 14721 14727 14727 14739 14739 14750 14762 14762 14776 14776 147791							
	STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS	0200 0200 0250 0300 0400 0400 0500 0500 0600 0600 0700 0700 0800 0800	0439 0439 0425 0425 0425 0414 0401 0401 0389 0384 0378 0378	3485 34845 3486 34855 3491 34907 3491 34907 3492 34922 34922 34923 34923	2764 2764 2766 2767 2767 2772 2773 2773 2775 2775 2776 2776 2777 2777	0004730 0004668 0004260 0004214 0004175	0196 0220 0264 0307 0349 0390 0431	14716 14716 14727 14727 14727 14739 14739 14750 14762 14762 14776 14776 14791 14806							
	STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS	0200 0200 0250 0300 0300 0400 0500 0500 0600 0600 0700 0700 0800 0800 0900	0439 0439 0432 0425 0425 0414 0401 0389 0389 0388 0378 0378	3485 34845 3486 3486 3491 34907 3491 34907 3492 3492 3492 3492 3492 3492	2764 2766 2767 2767 2772 2772 2773 2773 2773	0004730 0004668 0004266 0004214 0004175 0004099	0 0196 0 0220 0 0264 0 0307 0 0349 0 0390 0 0431	14716 14716 14721 14727 14727 14739 14739 14750 14762 14762 14776 14776 14776 14776 14776 14780 14806							
	STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS	0200 0200 0250 0300 0400 0400 0500 0500 0600 0600 0700 0700 0800 0800	0439 0439 0425 0425 0425 0414 0401 0401 0389 0384 0378 0378	3485 34845 3486 34855 3491 34907 3491 34907 3492 34922 34922 34923 34923	2764 2764 2766 2767 2767 2772 2773 2773 2775 2775 2776 2776 2777 2777	0004730 0004668 0004266 0004214 0004175 0004099	0 0196 0 0220 0 0264 0 0307 0 0349 0 0390 0 0431	14716 14716 14727 14727 14727 14739 14739 14750 14762 14762 14776 14776 14791 14806							

																			,			
REFERENCE	SHIP				F 5	MARSDEN	STATION TI		VC 4.0		ATOR'S		DEPTH	MAX. DEPTH	000	WAVE	WEA-	CLOUD			NODC	
CTRY IO.	CODE	LATITU		ONGITUDE	12 등 기	SOU ARE	(GMT)		YEAR		STATION NUMBER		TO BOTTOM	OF S'MPL'S		HGT PER SE	CODE	TYPE AM	-	2	TATION	
-			1/10	1710	-		MO DAY H					-					-			-		
31 8007	EV	4700	ONO	46450W	1				1966	06		\perp	1207	11	0.0	2 3	X2	0 3	1		0076	
						WAT		SPEED	BARC)· 	MP. °C	V15.	NO. 085.	SPEC	IAL							
						COLOR	TRANS. DIR.	DR	METE (mbs		WET	COOE	DEPTHS	OBSERV	ATIONS							
						DT	50 05	520	26	_	083	6	24									
		1			-	101	30 07	720	1 20				<u></u>	<u> </u>							1	\neg
	MESSENGR TIME	CAST	CARO	DEPTN	lm)	T °C	s °/	SIGM	1AAT	ANOMALY-X	1ME 2	YN. M X 10 ³	SOL	DCITY	O 2 ml/l	PO4-P pg = at/1	TOTAL-P	NO2-N µg - ot/l	NO3-N	\$1 O4-5		č
	HR 1/10	1	1172					-				X 10 ³	7650	00111		pg - 01/1	pg = 01/1	μg = 01/1	yg + o1/I	pg = 0171		4
			_	1				١	- 1								-					11
			STO			0951	3396	26.		001789	6 0	000		873								
	230)	OBS	000		0951	33960	26.		00160				873								
			STO			0885	3396	26		001686) (017		850								
			OBS	001		0885	33960	26		00167	70 0	.02/		850								
	00	1	STE OBS	002		0835 0835	3401 34010	26 26		00157	0 (034		833 833								
	00.	L	085	002		0831	34010	26						832								
			STO			0829	3401	26		001570	18 (049		832								
			085	003		0829	34010	26		001310	, , ,	, ,		832								
			085	004		0829	34065	26						835								
			STO			0764	3429	26		001274	2 0	078		814								
			OBS	005		0764	34290	26		0012,		, , ,		814								
			STO			0553	3458	27		000799	50 0	104		739								
			OBS	007		0553	34575	27		00017.				739								
			STO			0471	3472	27		000596	66 (121		711								
			OBS	010	0	0471	34720	27	51					711								
			085	011	0	0464	34720	27	52				14	710								
			STO	012	5	0501	3484	27	56	00054	68 (1135	5 14	729								
			OBS	012		0501	34835	27	56				14	729								
			OBS	013		0510	34855	27						735								
			STO			0473	3481	27		000540	7 0	149		721								
			085	015		0473	34805	27						721								
			STO			0439	3485	27		00047	23 (174		716								
			OBS	020		0439	34854	27						716								
			STO			0425	3487	27		000450		197		718								
			STE			0418	3489	27		000436	50 0	1220		724								
			OBS	030		0418	34886	27		000434	. 0	3/3		724								
			STO			0422	3492	27		000429) 9 (1263		743								
			OBS STE	040		0422	34919 3491	27 27		00042	16 /	305		743								
			085	050		0403	34907	27		00042.	0 (200		751								
			STO			0390	3491	27		000414	9 0	347		762								
			OBS	060		0390	34912	27		30071	. , (, , , , ,		762								
			STO			0391	3493	27		000414	+2 0	389		779								
			085	070		0391	34927	27			_ `			779								
			STO			0384	3493	27		00041	31 (430		793								
			085	080	0	0384	34930	27	77				14	793								
			STO			0379	3493	27	77	00041	70 0	471	14	808								
			OBS	090		0379	34929	27					14	808								
			STE			0373	3493	27		00041	55 (513	3 14	822								
			085	100		0373	34932	27						822								
			STE			0364	3493	27		00041	+3 (1555		835								
			OBS	110		0364	34932	27						835								
			OBS	115	U	0361	34936	27	80				14	842								

D. CO	HIP	LATITUO	1/10	NGITUDE 1/10	MARS SOU	ARE 1°	STATIO O OM	\rightarrow	YEAR	CRU		IATOR DITATE SMUN	N N	OEPTH TO BOTTOA	05516	S DIR.	WAVE SERVATI	ONS	THER CODE	CLOUT CODE:	5	\$	NOOC TATION IUMBER
007 E	EV	4700	ON 04	46310W	149	76	11 0	7 0	04 196	6	06	3		0630	05	05	3 2		X 2	0 3			0077
						WAI	-	W		RO-	AIR TE	_	VIS.	NO.	SPI	CIAL							
						COLOR	TRANS.	DIR.		ETER (bs)	BULB	9 W E	1 CODE	OBS. DEPTHS	OBSER	VATIONS							
						OT	50	04		71	111	1	10 6	17	 								
1	SSENGR TIME 0	CAST NO.	CARD TYPE	OEPTH (m)	Т	۳	s	٠/	SIGMA-T		DMALY-X		₹ △ D DYN. M X 10 ³	. SO	OCITY	02 ml/l	PO 4		OTA L-P ug - a1/I	NO2-N pg - ot/l	NO3-N pg - oi/l	\$1 O4-\$1 pg - o1/1	рН
																		1					
			510	0000		027	338		2603	01	01988	34	0000		+899								
	004	+	oBs	0000		027	338		2603	_	0107		0		+899								
			510	0010		017	338		2605	0	01974	+ 2	0020		+897								
			065	0010		017	338		2605	_	01010		0300		+897								
	0.00	_	510	0020		012	336		2607	O.	01949	9 7	0039		+897								
	000	J	085 085	0020 0025		012	338		2607						4897 4898								
			STD	0030		010	338		2608 2608	0	01948	2.5	0059		+898								
			OB5	0030		010	338		2608		01)40	, ,	00)		4898								
			OBS	0040		010	338		2608						4900								
			STD	0050		865	339		2635	Ω	01690	12	0095		4848								
			085	0050		865	339		2635		0 . 0 . 0		00,5		+848								
			OBS	0070		644	345		2718						4774								
			5.10	0075		680	348		2731	0	00788	39	0126		+792								
			OB5	0075	0	680	34	795	2731						4792								
			STD	0100	0	558	348	3 3	2749	0	00617	73	0144	. 14	+748								
			OBS	0100	0	558	348	325	2749					14	4748								
			5T0	0125	0	498	347	76	2750	0	00603	3.2	0159	14	+727								
			OBS	0125	0	498	347	755	2750					14	+727								
			STO	0150	0	460	34	79	2758	0	00537	77	0173	3 14	+716								
			0B5	0150	0	460	34	790	2758					14	4716								
			STO	0200	0	449	348	37	2765	0	00475	50	0199	9 14	4720								
			OB5	0200		449	348	365	2765					14	472Ü								
			5T0	0250	0	433	348	8 8	2768	0	00451	16	0222	2 14	4722								
			STD	0300		421	346	39	2770	0	00434	+8	0244	+ 14	+725								
			OBS	0300		421	348		2770					14	4725								
			510	0400		410	349		2773	0	00412	2.7	0286		4738								
			OB5	0400		410	349	919	2773						4738								
			STD	0500	0	388	349	91	2775	0	00401	19	0327	7 1	4745								
			OBS	0500	0	388	349	914	2775					14	4745								
			085	0550	0	379	349	916	2776					14	4749								

	,										_					,											1
REFERENCE	SHIP	LATITU	DE I	LONGITUDE	DRIFT	SOU	ARE	STAT	ION TI GMTJ	ME	YEAR	CRU	ORIGIN	TATIO		DEP		MAX. DEPTH		WAVE ERVATI	ONS	WEA-	CLOUD			NODC	
CODE NO.	COOE	•	1/10	' '1/10		10*	1"	MOTO	DAY H	R,1/10		N		NUMBI		BOTT	1	OF S'MPL'S	DIR.	HGT FE	SEA	COOE	TYPE AM	7		NUMBER	
31800	7 EV	4700	ON	046100W		149	76	11	07 (018	1966	5	06	4		03	02	03	08	1 4	Г	X 2	0 3			0078	3
	. ,		,			1	WAT	ER	, w	IND	BAR	10-	AIR TE	MP, °C	VI	NC		SPE	CIAL		•						
							COLOR	TRANS.	DIR.	SPEED	M ET		ORY BULE	W E1	CO1	OB DEPT			ATIONS								
							OT	5D	04	510		\rightarrow	111	11	_	2	1		-								
								1	- ,	T	1-	T		Ь-т		1	-			1				1			
	MESSENGI	OF NO.	CARD	DEPTH	(m)	T	℃	S	٠/	SIG	MA-T		OMALY-XI		₹ △ (DYN. / X 10	w. .	SOU		02 ml/l	PO ₄		10 TA E-P	NO2-N µg - al/l	NO3-N µg - at/l	NB - a1		i c
	HR_1/10									-				+	X 10	+				+	-+	-			-	+	+
	1	1	ST	000	ا م	1	013	33	94	26	06	1	01961		000	١	1 4 0	894 894		1					1	1	- [1
	01	R	0B5	000			013		855		06	0	01901	7	000			894									
	01	O	0B5	000			013		855		06							895									
			ST				997	33			08	0	01938	2	002			890									
	0.0	0	OBS	001	0	0	997	33	855	26								890									
			ST	002	Ç	0	995	33	86	26	09	0	01937	0	003	9	146	891									
			OBS	002			995		855	26	09						148	891									
			OBS	002			995		855		09							891									
			ST				991	33			09	0	01932	7	005			891									
			OBS	003			991		855		09							891									
			OBS	004 005			950 808	34	855		16	0	01399	2	Ūΰ9			877 830									
			OBS	005			808		205		66	0	01399)	009	_		830									
			QBS	007			603		415	27								756									
			5 T				594	34			21	0	00881	4	012			754									
			OBS	007			594		525		21				0 - L			754									
			OBS	007	7	0	560	34	470	27								740									
			OBS	008	4	0	552	34	555	27	28						147	739									
			085	008	6	0	510	34	530	27	31						147	722									
			085	009			499		545		34							719									
			OBS	009			532		705		43							735									
			51				499	34			44	0	00665	0	013			722									
			065 5 T	010 012			499 529	34	670		52	0	00587		015			722									
			0B5	012			529		823		52	U	00367	9	015			740 740									
			0B5	012			495		790		54							727									
			ST				499	34			59	0	00523	5	016			733									
			OB5	015			499		867		59		00023		7.0			733									
			ST				477	34			62	0	00504	5	019			732									
			OB5	020	0	0	477	34	867	27	62							732									
			ST				445	34			66	0	00464	8	021			727									
			085	028	0	0	421	34	887	27	70						147	722									

REFER	ENCE				_ «	MARSDEN	TATE	ION TI	ME			ORIGIN A	ATOR'S		DEPTH	MAX.		WAV	/E	T wi	A-1	CLOUD			N00C	7
TRY	10. NO.	CODE	LATITU	1/10 LO	MGITUOE SOUTION	SOUARE	(GMT)	1	rear .	CRUISE NO.		TATION		TO OTTOM	OEPTH OF S'MPL"	00.	ERVA	TIONS PER SE	TH	ER	TYPE AM		5	TATION UMBER	
_	8007	EV	4718		6100W	149 76				966		065			368	_	1	-	2		2	0 3			007	
_		1				WA			INO		<u> </u>	AIR TEM		T-1	NO.		رئار	1-1	-1	1 ^	- 1	013	1	'	001	21
						COLOR	TRANS,	OIL	SPEED OR FORCE	M ETER	R (DRY ULR	WET	CODE	OBS.		CIAL /ATIONS									
						DT	50	03	514	26	8 1	.00	100	5	15											
		MESSENGR TIME HR 1/10	CAST NO.	CARO TYPE	OEPTH (m.)	1 °C	s	*/	SIGMA	A-T		VOLUA ALY-X10	, C	∆ D YN. M. X 10 ³		OCITY	O ₂ ml/l		04-P - 01/I	701AL 99 - 01		NO2-N ug - ot/l	NO3-N yg - at/l	SI O4-SI ug - o1/I	рН	5
															Ι.			7								
		0.71		STD	0000	0983	33		261		001	.854	6 (0000		884										
		03	7	OBS	0000	0983		935	261		0.0.1	0.5.57				884										
				STO OBS	0010	0982	33	935	261		001	8550	0 (019		885										
				510	0020	0982	33		261 261		001	847	5 /	0037		885										
		000)	OBS	0020	0976		935	261		001	. 047.) (1051		885										
		001		085	0025	0968		935	261							883										
				STD	0030	0966	33		262		001	833	7 (0055		883										
				OBS	0030	0966		935	262					, , , ,		863										
				OBS	0040	0964	33	940	262	1					14	884										
				STD	0050	0810	34	34	267	6	001	301	9 (0087	14	833										
				085	0050	0810	34	340	267	6					14	833										
				STO	0075	0690	34	74	272	4	000	846	8 (114	14	795										
				OBS	0075	0690	34	735	272	4					14	795										
				STD	0100	0664	34	78	273	2	000	7830	0 (134	14	790										
				OBS	0100	0664	34	780	273	2					14	790										
				085	0117	0644	34	835	273	9					14	785										
				STO	0125	0570	34	72	273	9	000	713	4 (153	14	756										
				OBS	0125	0570	34	720	273	19					14	756										
				STD	0150	0530	34		274		000	639	3 (170		744										
				OBS	0150	0530		760	274							744										
				STD	0200	0477	34		275		000	532	2 (199		731										
				OBS	0200	0477		830	275							731										
				STD	0250	0444	34		276			1463)224		+727										
				STO	0300	0429	34		276		000)440!	5 ()246		729										
				OBS	0300	0429	_	896	276							729										
				OBS	0310	0428	34	897	277	0					14	+730										

										DRIGINATO	ntr I		MAX.				1				
TRY		SHIP	LATITU	DE LDI	NGITUDE SOUTH	MARSDEN SQUARE	STATION TIL	ME YEA				DEPTH	DEPTH		WAVE ERVATIONS	WEA-	CODES		5	NODC	
	ND.	CODE		1/10	1/10	10" 1"	MD DAY H	2,1/10	NO.	NUA	ABER	BOTTOM	OF S'MPL	S DIR.	HGT PER SEA	0000	TYPE AMT		N	UMBER	
3180	007	EV	4740	ON 04	6100W	149 76	11 07 0	66 19	66	066		1075	10	0.3	3 2	X 4	0 3			0080	
	1					WAT		IND		AIR TEMP.	°C	ND.			121-1	1 44	1 0.5	1		0000	
						COLDA	TRANS. DIR.	SPEED N	METER		VET CODE	OBS.	OBSER1	CIAL VATIONS							
						CODE	tm)	FORCE ((mbs)	BULB B	ULB	DEPTHS									
						DT	SD 05	520	254	106 1	106 4	23									
		MESSENGR	CAST	CARD					_ SPECIFI	C VOLUME	₹ ∆ D DYN. M.	sou	IND		PO ₄ -P	TOTAL-P	NO ₂ -N	NO3-N	SI D4-SI		5
		TIME HR 1/10	NO.	TYPE	DEPTH (m)	ī °C	5 %.	SIGMA-	ANON	AALY-X107	X 103	VELD		D2 ml/l	yg - 01/1	µg - 01/1	μg - αt/1	μg + at/l	ug - at/1	pН	C
	Ì	71R 1710					<u> </u>	i							+						+1
	- 1		1	STD	3000	0762	3377	2639	1 00	16502	0000	14	799		1		1		ı	l	11
		06	6	085	0000	3762	33770	2639			0-00		799								
				STD	0010	0763	3377	2638		16532	0017		801								
				OBS	0010	0763	33770	2638				14	801								
				STD	0020	0910	3417	2647	00	15706	0033	14.	863								
		0.0	1	085	0020	0910	34170	2647				14	863								
				OBS	0025	0900	34085	2642					859								
				STD	0030	0833	3394	2641		16286	0049		833								
				OBS	0030	0833	33940	2641					833								
				OBS	0038	0868	34165	2654		13650	0.370		850								
				STD OBS	0050	0668 0668	3400 33995	2669 2669		13658	0079		773 773								
				085	0058	0544	34190	2700					727								
				085	0064	0559	34575	2729					739								
				STO	0075	0486	3466	2744		06589	0104		712								
				OBS	0075	0486	34655	2744					712								
				STO	0100	0471	3474	2752	000	35816	0119	14	711								
				OBS	0100	0471	34740	2752				14	711								
				085	0115	0437	34705	2753					699								
				STO	0125	0435	3471	2754		55718	0134		700								
				OBS STD	0125	0435 0428	34705 3483	2754		04748	01/7		700								
				085	0150	0428	34828	2764 2764		14140	0147		703 703								
				SID	0200	0412	3485	2767)4488	0170		705								
				OBS	0200	0412	34847	2767			0-70		705								
				STO	0250	0406	3487	2770		04302	0192		711								
				STD	0300	0402	3488	2771		04241	0213		717								
				OBS	0300	0402	34879	2771					717								
				STD	0400	0397	3489	2772	000	04209	0256	14	732								
				OBS	0400	0397	34889	2772					732								
				STD	0500	0394	3491	2774		04137	0297		747								
				OBS	0500	0394	34907	2774			- 11 -		747								
				STD	0600	0390	3492	2775		04127	0339		762								
				OBS STD	0600 0700	0390	34915	2775			0.4		762								
				OBS	0700	0382 0382	3492 34920	2776 2776		54092	0380		776 776								
				STD	0800	0302	3493	2777		04080	0421		790								
				OBS	0800	0377	34926	2777		, , , , ,	0.21		790								
				STO	0900	0368	3493	2778		34042	0461		803								
				OBS	0900	0368	34929	2778					803								
				065	0980	0363	34933	2779					814								

REFER	ENCE IO.	SHIP	LATITU	DE LOI	ACITUDE POOL	MARS	DEN	TAT2	ON TI		YEAR	CRU	ORIGINA	TOR'S		OEPTH TO	MAX		WAVE	WEA-	CLOUD			OOC ATION	
CODE	NO.	COOE	•	1/10	1/10	10*				R,1/10		CRU N(LIMBER	В	оттом	S'MPL		HGT PER S	0000	TYPE AM			UMBER	
31	8007	EV	4800	ON 04	6100W	149	86	11 (7 (184	1966		06	7		152	11	. 03	3 4	Х4	0 3			0081	
1				1			WAT			INO	BARC	T	AIR TEM		Т Т	NO.			1-1-1	, , , ,	, 0.5		'	0001	
							COLOR		OIR.	SPEED	METE	R	ORY	WET	CODE,	OBS.		CIAL							
							C008	tm t		FORCE	(mbs	\rightarrow	BULB	BULB	-										
							DT	SD	07	520	25	4	106	106	3	24									
		MESSENGR TIME 0 HR 1/10	CAST NO.	CARO TYPE	OEPTH (m)	Т	℃	s	٠/٠٠	SIGM	I—A		OMALY-X10	AE 01	△ 0 N. M. 10 ³		JND DCITY	O 2 ml/l	PO4-P pg - oi/I	TOTAL-P	NO2~N μg - σl/l	NO3-N pg - ot/l	SI O4~Si µg = 61/1	рН	200
																									\top
		1	' '	STD	0000	0	913	34.	13	26	44	0	01601	ວ່ ວ	000	1 14	861		1	'			'		
		084	+	OBS	0000		913	34.	130	26	44					14	861								
				STD	0010		913	34		26		0 (01602	9 0	016		862								
				OBS	0010		913	34		26					0.00		862								
				STD	0020		911	34		26		0 (01605	5 0	032		863								
		001	L	OBS	0020		911	34		26							863								
				OBS	0025		900	34		26		0	015/7	, ,	0.0		860								
				STD	0030		871	34		26		01	01547	1 0	048		850								
				065 085	0030 0036		769	_	005	26							850								
				085	0039		813		185	26							810								
				STD	0050		699	34		26		0	01137	8 O	U 75		790								
				OBS	0050		699		355	26			V 1 1 2 1		0,5		790								
				STD	0075		469	34		27		0	00625	3 0	097		705								
				OBS	0075		469	34		27			0000				705								
				STD	0100		436	34		27		0	00559	1 0	112		696								
				085	0100	0	436	34	720	27.	55						696								
				STD	0125	0	429	34	76	27	58	0	00528	0 0	125	14	698								
				OBS	0125	0	429	34	755	27.	58					14	698								
				STD	0150		424	34		27		0	00506	6 0	138		700								
				OBS	0150		424		780	27							700								
				STD	0200		428	34		27		0	00451	5 0	162		711								
				OBS	0200		428		366	27					10.		711								
				510	0250		414	34		27		_	00440		184		714								
				STD	0300	_	404	34		27		0	00435	2 0	۷06		716								
				OBS	0300		404		367	27		0	00/21	2 0	25.0		718								
				STD	0400		398	34	30 377	27		U	00431	0 0	250		732								
				STD	0500		392	34		27		0	00424	2 0	492		746								
				OBS	0500		392	-	390	27			00.2.	_ 0	- / _		746								
				STD	0600		391	34		27		0	00422	0 0	335		763								
				085	0600		391		904	27							763								
				STD	0700		389	34		27		0	00423	0 0	377	14	778								
				OBS	0700	0	389	34	912	27	75					14	778								
				STD	0800	0	385	34	92	27	76	0	00421	7 0	419	14	793								
				085	0800		385	_	920	27							793								
				STD	0900		380	34		27		0	00420	4 0	461		808								
				OBS	0900		380	_	926	27							808								
				STD	1000		369	34		27		0	00414	0 0	503		820								
				OBS	1000		369		29	27							820								
				OBS	1060	0	359	34	935	27	80					14	826								

REFERENCE CTRY ID. CODE NO.	CODE	LATITUI		NGITUDE LOG	MARSDEN SQUARE	STATION TI (GMT)	Y	EAR		TOR'S ATION UMBER	-	DEPTH TD BOTTOM	MAX, DEPTH DF S'MPL"	003	WAVE ERVATIONS	WEA- THER CODE	CLOUD CDDES		S	NDDC TATION UMBER	
318007	ΕV	4819	1/10 ON O	11/10 * 46100W		MD DAY H		966	068		\dashv	1152	11	01	HGT PER SE					0000	
3 1/000 /	r v	4019	014 0	40100W	WAT		IND	Г	AIR TEM		\Box	NO.			12121	X4	013	1	1	0082	
						TRANS. DIR.	SPEED	METER	DRY	WET	CODE	0.05	OBSERV	CIAL ATIONS							
					CODE	(m)	FORCE	(mbs)		BULB	-										
					DT	SD 07	520	254	4 067	067	3	21			1						
	MESSENGR TIME 0 HR 1/10	CAST ND.	CARD TYPE	OEPTH (m)	T °C	5 */	SIGMA	A-T	SPECIFIC VOLUA ANOMALY—X10	AÉ DY	△ D N, M, 10 ³	. VELD		D ₂ ml/l	PO 4-P µg = 01/I	TOTAL-P ug ~ ot/I	NO2~N µg - α!/l	NO3-N NO3-N	\$1 O4-\$i	рН	s C C
				0000	0.440	2240]	, 1	001502			1,	7(1								11
	108		STD OBS	0000	0668 0668	3368 33680	264 264		001593	в О	000		761 761								
	100		STD	0010	0745	3419	267		001319	5 0	015		799								
			085	0010	0745	34185	267						799								
			STD	0020	0700	3411	267	4	001320	в 0	028	14	782								
	001		OBS	0020	0700	34105	267						782								
			OBS	0025	0721	34195	267						792								
			STD	0030	0733	3428	268		001239	6 01	041		799								
			OBS STO	0030 0050	0733 0449	34275 3428	268 271		000897	7 0	062		799 688								
			OBS	0050	0449	34280	271		000071	, 0	002		688								
			085	0052	0423	34330	272						678								
			STD	0075	0424	3463	274		000615	3 0	081		686								
			OBS	0075	0424	34625	274	8					686								
			STD	0100	0457	3481	275		000517	7 0	095	14	706								
			OBS	0100	0457	34805	275						706								
			STD	0125	0462	3486	276		0004884	4 0	108		713								
			OBS STD	0125 0150	0462 0459	34855	276		0.30 (. 2.7)	0 0	120		713								
			085	0150	0459	3486 34855	276 276		000487	9 0	120		716								
			510	0200	0439	3486	276		000477	າ ກ	144		716 718								
			OBS	0200	0444	34855	276		000417	•			718								
			STD	0250	0435	3489	276		000446	3 0	167		723								
			STD	0300	0427	3491	277		000427		189		728								
			OBS	0300	0427	34911	277	1					728								
			STD	0400	0418	3491	277		000431	9 0	232		741								
			OBS	0400	0418	34905	277						741								
			STD	0500	0395	3491	277		000414	В 0	274		748								
			OBS STO	0500 0600	0395 0387	34907 3491	277 277		000/12	2 0	315		748								
			085	0600	0387	34911	277		000412	<i>5</i> U	210		761 761								
			STD	0700	0376	3491	277		000408	3 0	357		773								
			OBS	0700	0376	34912	277		000400	, ,	-)(773								
			STD	0800	0376	3493	277		000402	4 0	397		790								
			OBS	0800	0376	34932	277						790								
			STD	0900	0366	3493	277	9	000401	B 0	437	14	802								
			085	0900	0366	34929	277					14	802								
			STD	1000	0363	3493	277		000406	9 0	478		818								
			085	1000	0363	34929	277				_		818								
			STD	1100	0360	3493	277		000411	7 0	519		833								
			085	1100	0360	34929	277	9				14	833								

RENCE	SHIP	LATITU	DE LO	DHGITUDE DE COLOR	M A R		STAT	IOH TIM	E YEA	R	ORIGI	STAT		DEPTH	DEPTH OF	085	WAVE ERVATIONS		WEA-	CLOUD		51	NODC TATION	
NO.	COOE	•	1/10	1/10 2	10°	1"	MO C	DAY HR.	1/10	_[HO.	NUN		BOTTOM	S'MPL	S DIL	NGT PER S	EA.	CODE	TYPE A AA	_	N	UMBER	
800	EV	4834	ON O	46100w	149	86	11		34 19	66	0.0			2012	15	06	3 3		χ4	0 3	1		0083	
						WAT	_	WI		ARO-		_	- V15	HO. OBS.		CIAL								
						COLOR	TRANS.	DIR.	OR "	ETER mbs)	ORY BUL®	81	UL9 COD	OBS. DEPTHS	OBSERV	2 NOIT A								
						ОТ	50			247	083	10	083 1	24										
	MESSENGR	CAST		T	Т					П.	PECIFIC VOL			1-	UND		T 40 .	T			NO 11			5
	TIME o	NO.	C ARO TYPE	OEPTH (m)	T	°C	S	٠/	SIGMA-	ι ,	ANOMALY-X	107	₹ ∆ 0 0YN, M x 10 ³	- VET	OCITY	O ₂ mI/I	PO4-P ug - at/L		A L - P - ot/l	NO2←N µg = ot/1	NO3-N vg - ot/l	\$1 O4~\$1 yg = o1/1	рН	C
	HR 1/10			+	-		+						1 10	+-				-	_					+
	1		STD	0000	1	719	331	0.8 0.8	2590	1	002110	n 9	0000	14	773		1					l	I	- 1
	134	•	OBS	0000		719		075	2590		00222	0 /	0000		773									
			STD	0010		719	3 3	08	2590		00211	23	0021		774									
			OBS	0010		719		075	2590						774									
	000		STD	0020		719	33		2590		00211	37	0042		776									
	002	-	085 085	0020		719		075 075	2590 2590						776									
			STD	0030		725	34		2665		00140	76	0060		793									
			085	0030		725		035	2665						793									
			STD	0050		595	34		2702		00105	11	0084		748									
			OBS	0050		595		295	2702						748									
			STD	0075		478	341		2748		00062	39	0105		709									
			OBS	0075 0100		478	34	690	274B 2756		00054	e .	0120		709									
			STD	0100		462		775	2756		00054	20	0120		708									
			STO	0125		460	34		2761		00050	12	0133		712									
			085	0125		460		835	2761		00000	-	0.5		712									
			STD	0150	0	451	34	84	2762		00049	42	0146	14	712									
			OBS	0150		451		835	2762						712									
			STO	0200		438	34		2765		00047	05	0170		715									
			OBS	0200 0250	-	438	34	855	2765		000///	0.5	0101		715									
			STD	0300		424	34		2768 2770		000449		0193		727									
			OBS	0300		424		899	2770		000.5		0-1.		727									
			STD	0400	0	414	34	91	2772		00042	67	0258	14	739									
			OBS	0400		414		906	2772						739									
			STD	0500		402	34		2773		00042	25	0300		751									
			OBS STD	0500 0600		389	34	907	2773 2774		00041	0.0	0342		751									
			085	0600		389		905	2774		00041	90	0342		762									
			STD	0700		382	34		2775		00041	88	0384		775									
			OBS	0700		382		907	2775						775									
			STD	0800		377	34		2776		00042	06	0426		790									
			OBS	0800		377		909	2776				- 1		790									
			STD	0900		371	34		2777		00041	65	0468		804									
			OBS STD	0900 1000		371	34	917 92	2777 2778		00041	90	0510		804 819									
			085	1000		367		919	2778		00041	90	0210		819									
			STD	1100		363	34		277B		00042	12	0552		B34									
			085	1100		363		921	2778						834									
			STD	1200	0	360	34	93	2779		00042	15	0594	. 14	850									
			085	1200		360		927	2779						850									
			STD	1300		356	34		2780		00042	26	0636		865									
			085	1300 1400		356	34	930	2780 2781		00041	0.2	0678		865									
			STD OBS	1400		1355		944	2781		00041	16	0078		882									
															200									
			STD	1500	U	351	34	95	2782		00042	00	0720) 14	897									

					,							,											_					7
REFERENCE	SHIP	LATITU	nr.	LONGITUDE	DELFT	MARS		ITAT2	ON I	IME	YEAR	<u></u>	ORIGIN			DEF		MAX.	OR.	W A	VE A TIONS	WE		CLOUD			NODC	
CODE NO.	CODE	·	1/10	1/10		10*				R.1/10	ILAK	CRUIS NO.		STATE NUM		8011		OF MPL'S	OIR.		PER SE		ns L	TYPE AMT	-		NUMBER	
31800	EV	4742		045240	+	149	75	$\overline{}$	\rightarrow		1966		07	7.0		02		03	0.7	_		×	\neg				2001	
1 21000	d col	7172	014	0422401	'		WAI			VIND			AIR TE		r I	1		0.5	0 1	1 2	-	1 ^	۷ ا	0/3	I	- 1	0084	H
						h	COLOR	TRANS.	DIR.	SPEED	MET		DRY	w	VIS	'F OR	35.	SPEC										
							CODE	lm)	DIR.	FORCE	lmb	s)	BULB	BU		DEP	THS	JUJERTA										
							DT	SD	10	522	19	13	111	1	11 7	1	3											
	MESSENGR	CAST	CARE						. ,	T		SPECIF	IC VOL	IME	₹ △ □		SOUN	in I			PO4-P	TOTAL-	- P	NO2-N	NO3-N	5104-	si	5
	HR 1/10	Y NO.	TYPE		(m)	1	°C	2	٠/	SIG	7-AN		MALY-X		X 10 ³	^- -	VELOC		O2 ml/l		g = a1/1	μg = pl		μg - αt/i	µg - ot/1	pg - 01		c
	FIR 17 10									+-						_				+			+					\dashv
	1	1 1	ST	n 000	00 1	0	994	33	9.0	26	12	00	1901	7	0001	0	148	88		- 1			ı	'		ı		1 1
	19	5	085	000	0	0	994	33	895		12						148											
			5 T	0 001	10	0	964	33	90	26	17	00	1856	51	001	9	148	78										
			085				964		895		17						148											
			5 T				931	341			32	00	171	78	003		148											
	001	0	085				931		015		32				-0-		148											
			ST				895 895	34	13 125		46	00	1583	3 1	005		148											
			085 5.T				787	34			96	00	1109	٠.	008		148											
			089				787		555		96	00	110;	74	008		148											
			ST				725	34			30	00	079	7 1	010		148											
			085				725		865		30	00	0,,		010		148											
			ST				683	34.			36	0.0	0744	+ 7	012		147											
			OBS	010	00	0	683	34	865	27	36						147	98										
			ST	D 012	2.5	0	632	34	83	27	39	00	071	20	014	1	147	82										
			085	012	25	0	632	34	825	27	39						147	82										
			ST	0 015	0	0	560	34	78	27	45	0.0	0659	9	015	9	147	56										
			085				560		780		45						147											
			085				559		865		52						147											
			088				493		740		50						147											
			ST				487	34			58	00	0543	35	018		147											
			OBS				487		B30		58						147											
			ST				448	34			65	00	047	70	021		147											
			085	025	2	0	446	34	B70	27	65						147	28										

REFERENCE CITY ID. CODE NO. 318007 EV 4644	1/10	**************************************		ER V	YEAR	NO. NL O- AIR TEM1 ER DRY S1 BULB	TION	NO.	OBS	WAVE ERVATIONS HGT PER SEA 3 3	WEA- THER COOE	CLOUD CODES	ī	12 N	NODC TATION UMBER
MESSENGR CAST TIME OF NO. HR 1/10	CARD	DEPTH (m)	ט' ז	s ·/.	SIGMA-T	SPECIFIC VOLUM	₹ △ 0 DYN. A x 10 ³	A. UELOGIEN	O 2 ml/l	PO4-P µg = 01/I		NO2-N ug - a1/I	NO3-N 1/10 - gu	S1 O4 - St ug - at/1	ρН
014	STD 08S 5TO 08S 5TD	0000 0000 0010 0010	0979 0979 0978 0978 0974	3406 34055 3406 34055 3406	2627 2627 2627 2627 2627 2628	0017594 0017598 0017555		14884 8 14885 14885	5						
000	0BS STO 0BS STD	0020 0030 0030 0050	0974 0946 0946 0918	34055 3408 34080 3430	2628 2634 2634 2656	0017939		14886 2 14877 14877	7						
	085 085 5T0 085 085	0050 0054 0075 0075 0079	0918 0915 0570 0570 0479	34300 34300 3439 34390 34555	2656 2657 2713 2713 2737	0009534		14873 14872	3 2 3 3 3						
	STD 085 085	0100 0100 0122	0469 0469 0464	3456 34555 34560	2738 2738 2739	0007180	0136		3						

		,																1									
CTRY	RENCE IO.	SHIP	LATITU) GE	LONGI		SQU	ARE	TAT2	ON TIM	E	YEAR	CRUISE	GINAT	TION		DEPTH TO OTTOM	DEPT	H OBS	WAVE ERVATIONS	TI C	HER DDE	CODES		S1	NODC TATION UMBER	
CODE	NO.	\vdash	4558	1/10 3 O N	043	1/10 == 550W	10"		11			1966	NO.	072	MBER	-	+023	S'MPL		9 4 SI	_	X 2	O 3		_	0086	
		[WA		wı	ND	BARO	A 10	TEMP.			NO.		ECIAL	121.1	1 ′		0, 5	l	- 1	0000	
								COLOR	TRANS.	DIR.	SPEED OR FORCE	M ÉTEI (mbs)	R DR		WET	CODE	OBS. DEPTHS	OBSER	VATIONS								
								DT	SD	12	S45	07	5 17	2	161	6	36										
		MESSENGR TIME HR 1/10	CAST NO.	CAR TYP		DEPTH (m)	7	*c	S	•/	SIGN	Y-AA	SPECIFIC V	OLUME Y-X10 ²	¥ X	∆ D N. M. 10 ³		DCITY	O2 ml/l	PO4-P µg - st/l	TOTA Pg -		NO2-N ug - al/l	NO3-N	\$1 O4-51 yg - a1/1	pН	.c.
				51	TD	0000	1	.322	33	71	25	52	0024	713	00	000	15	002			1						
		100	0	083	S TD	0000		322	33	905	25 25		0024	6.21	0.0	25		002									
				0B;		0010		319		905	25		0024	001	0.0	123		003									
		00	~		TD	0020		214	33		25		0023	617	00)49		967									
		002	4	0B3		0020		.214	33	760 79	25 25		0023	080	00	72		967									
				083	S	0030		182		785	25						14	958									
				083		0050		918	34	+4 +35	26		0013	925	0 -	109		875									
				0B	S	0056	C	1895		25	26	85					14	870									
				083		0065		921	34	315 76	26 27		0010	833	0.	140		883									
				OB:	5	0075	0	870	34	760	27	00					14	865									
				089		0080		858	34	325	27 27		0009	570	ο.	166		862									
				OBS		0100		917		35	27		000)	3,0	0.	.00		890									
				S1		0125		819	34		27		0008	983	0 .	189		856									
				0B3		0125		819 785	34	920 98	27		0008	125	0.4	210		856									
				0B	S	0150	С	785	34	75	2.7	30					14	848									
				0B;		0200		1603	34 34	79 787	27 27		0007	144	04	249		782									
				0B:	S	0242	C	528	34	769	27	48					14	758									
				\$ OB;	TD c	0250)548)557	34	34 372	27		0006	137	0.	282		769									
					TD	0300)488	34		27		0005	107	0.	310		753									
				0B;		0300)488)453		391 376	27							753									
				OB:		0361)470		902	27							756									
				OB:		0370)439)469		387	27		000/	(72	0	2 - 0		744									
				S1 OB		0400		1469	34 34	935	27 27		0004	013	0.	359		762									
				OB:		0420		443		907	27							755									
				0B:		0430		462	34	937 96	27		0004	412	0.4	+04		764									
				OB:	S	0500	С	1455	34	963	27	72					14	773									
				OB;	5 T 0	0550 0600		403	34 34	397 71	27		0004	347	04	+48		759									
				08	S	0600	C	403	34	905	27	73	000	- + /			14	768									
				0B:		0628 0675		439		972 927	27 27							788 782									
					TD	0700)427	34			76	0004	211	04	+91		795									
				08		0700		1427		974	27		0001	250	0.	22		795									
				OB:	TD S	0800)407)407	34 34	95 949	27	76 76	0004	259	0:	>33		803									
				S	TD	0900	C	378	34	93	27	77	0004	188	0:	75	14	807									
				0B:	S TD	0900 1000		378	34 34	925 96	27		0004	208	0.0	517		807									
				08	\$	1000	C	392	34	957	27	78					14	830									
				0 B :	TD S	1100		369	34	93 930		78 78	0004	218	0.0	559		837									
				S	TD	1200		374	34	95	27	79	0004	239	0	702	14	856									
				0B;	S TD	1200		374	34 34	947		79 80	0004	258	0	744		856									
				OB;		1300		371		951		80	0004	2,0			14	872									
					T O	1400		367	34		27	80	0004	292	0	767		887									
				0 B:	S TD	1400 1500		367	34 34	951 96		80 81	0004	306	0	830		887									
				08		1500		365		957		81						903									

CTRY IO.	SHIP	LATITU	DE LO	NGITUOE	NDC SQ	RSOEN U ARE	STATION T	3M1	YEAR	CRUISE		ATOR'S	-	DEPTH TO	MAX. DEPTH OF	ORS	WAVE ERVATIONS	WEA- THER	CLOUD		ST.	ODC ATION	
CODE NO.	CODE	•	1/10	* 1/10	10*	1*	MO DAY	R.1/10		NO.	i	NUMBER		BOTTOM	S'MPL'S	Oir,	HGT PER SE		TYPE AMI		N	IMBER	
31800	EV	4451	ON O	42350W	14			217	1966		07			4755	15	22	4 2	X 2	03			7800	
						WA	1	VINO	BARG	J.	AIR TEA	MP. °C	VIS.	NO. OBS.	SPEC	IAL							
						COLOR	lm1	FORC	E (mbs	i) E	LULE	BULB		OEPTHS	OBSERV	AIIUNS							
						DT	SD 21	510	0 11	5	183	178	7	32									
	MESSENG TIME	CAST NO.	CARO TYPE	DEPTH (m	1)	t *c	s */	SIG	MA-T	SPECIFIE	C VOLU	ME S	AN. M	SOL	DOUTY	O2 ml/1	PO4-P	TOTAL-P		NO3~N	SIO4-Si	рН	SCC
	HR 1/10	1		-	_		-	-				-	X 103	*****			μg + σ1/1	N8 - 01/1	h8 - al/	yg - at/[μg - αl/l		H
		!	STD	0000)	1781	3572	1 2	588	002	2126	1 0	000	15	168					1			
	21	7	085	0000)	1781	35715	2 !	588					15	168								
			ST0 085	0010		1782 1782	3571 35710		588 588	002	2135	4 0	021		170								
			STD	0010		1789	3575		589	002	2129	8 0	043		170 174								
	0.0	2	085	0020)	1789	35745	2 !	589					15	174								
			STD OBS	0030		1796 1796	3577 35765		589 589	002	2135) 1 C	064		178								
			STD	0050		1800	3586		594	002	2086	0 0	106		178 183								
			OBS	0050)	1800	35855	2 !	594					15	183								
			OBS STD	0060		1813	35935 3609		597 617	0.23	1880	15 0	156		190 184								
			OBS	0075		1780	36085		617	00.	1000	15 0	100		184								
			STD	0100)	1741	3635	26	546	001	1609	3 0	199	15	180								
			08S STD	0100		1741 1729	36345 3638		646	00	15/0	1 0	120		180								
			OBS	0125		1729	36375		652 652	00.	1568	31 0	239		181								
			STO	0150)	1679	3628		656	00	1534	3 0	278		169								
			085	0150		1679	36275		656						169								
			OBS STD	0177		1670 1592	36285 3617		659 668	00.	1433	10 0	352		171								
			OBS	0200		1592	36167		668				222		150								
			STD	0250		1503	3598		674		1392		423		128								
			STD OBS	0300		1448	3590 35903		680 680	00.	1346	57 C	491		118								
			085	0355		1428	35953		688						121								
			STD	0400		1353	3577		690	00	1278	35 0	1622		101								
			08s 08s	0400		1353	35767 35600		690 697						101								
			OBS	0452		1289	35692		697						088								
			STD	0500		1214	3556		701	00	1182	6 0	746		069								
			085 085	0500		1214	35559 35381		701 712						069								
			ST0	0600		1042	3536		718	001	1035	0 0	856		022								
			085	0600		1042	35359		718						022								
			OBS OBS	0650		0889 0889	35114 35154		724 728						971								
			STO	0700		0852	35154		728 731	000	0910	9 0	954		977								
			085	0700)	0852	35117	2	731					14	966								
			STD OBS	0800 0800		0690	3504 35043		749 749	000	0732	4 1	036		919								
			OBS	0865		0605	35032		759						896								
			STD	0900)	0610	3508	2	762	000	0606	0 1	103	14	904								
			085 STD	0900		0610 0524	35078 3502		762 768	000	0545	0 1	160		904 885								
			OBS	1000)	0524	35016		768	000	JJ40	, , 1	100		885								
			STD	1100		0489	3502		772	000	0510)6 1	213	14	888								
			08S STD	1100		0489	35016 3499		772 772	0.07	0521	7 1	265		888								
			085	1200)	0472	34985	2	772	500	J = 1		-02		897								
			STD	1300		0441	3499		775	000)489	94 1	315		901								
			085 STD	1300		0441	34987 3498		775 776	000	0485	55 1	364		901								
			085	1400)	0424	34975	2	776	000		,	204		911								
			STD	1500		0415	3497		777	000	0483	37 1	413		924								
			OBS	1500)	0415	34974	2	777					14	924								

REFERENCE CIRY ID.	SHIP	LATITU	IDE	LONGII	TUDE	CTR	MARSDEN SQUARE	STATION	TIME	YEAR		DRIGIN			DEPTH	MAX. DEPTH	Das	WAVE SERVATIONS	WEA	- CLDUD			NDDC TATION	
CODE ND.	CDOE		1/10		1/10	N N	10° 1°	MD DAY		ILAN	CRUI). N	TATION		BOTTOM	DF S'MPL"	l .	HGT PER S	000	TYPE AMT		1 2	RSEMUL	
31800	7 EV	4409	NO	0422	250W		149 42	11 09	024	1966	5	07			4755	15	22	3 2	X Z	0 3			0088	
							WA.		WIND	BAF	D	AIR TEA		vis,	ND. OBS.		CIAL							
							COLDR	TRANS. DIR.	FORC			DRY BULB	BULB		DEPTHS	DBSERV	SNOTTA							
							DT	50 22	52	0 1;	25	194	183	6	29									
	MESSENGR TIME	CAST ND.	CAR	0	DEPTH U	m.t	т *c	s */	SIC	MA-T	SPEC	IFIC VOLU	ME S	Δ D	SDU	סאנ	D2 ml/!	PD4=P	TOTAL-		NO3-N	SI 04-Si		S
	HR 1/10	T NO.	ITP	1							ANG	JMALT-X1	,	103	VELC	CITY		pg = ot/1	/10 - Qu	νg - α1/1	yg = a1/1	Vg - at/	-	С
				TD	000	.	1866	3585	1	577	1	, , , , , ,	2 0	000		10/		1					1	
	0.24	4	08:		000		1866	35849		577	0 (2233	<i>5</i> 0	000		194								
			5	TD	001	0	1867	3585	2	577	0.0	02235	5 0	022		196								
			08:		001		1867	35850		577						196								
	002	2	08	TD -	002		1867 1867	3585 35850		577 577	00)2239	0 0	045		198								
	002	_		5 TD	003		1867	3585		577	0.0	2242	5 0	067		198								
			08		003		1867	35850		577		, , , ,	, ,			199								
			5	TD	005		1864	3585		578	0.0	2242	3 0	112		202								
			OB:		0051		1864	35850		578						202								
			08	5 T 0	006		1864 1862	35850 3615		578 601	0.0	2032	3 ^	1 / 5		204								
			0B:		007		1862	36149		601	U	12032	5 0	165		209								
				T D	010		1808	3646		638	0.0	1686	9 0	212		201								
			08		010		1808	36455		638						201								
			OB:		010		1790	36565		651						198								
			OB;	T 0	0110		18J1 1795	36500 3652	_	644 646	0.0	01621	3 0	253		201								
			08:		012		1795	36519		546	00	71021	, ,	200		202								
				TD	0150	0	1775	3652		651	0.0	1582	6 0	293		200								
			08		0150		1775	36515		651						200								
			0 B	TD.	0200		1725 1725	3643 36425		656 656	00	1547	9 0	372		193								
				TD	025		1693	3637		660	0.0	1530	6 0	449		193								
				T D	030		1641	3629		666		01486		524		183								
			08		030		1641	36290		666						183								
				TD	0400		1479	3603		683	0.0	01349	6 0	666		146								
			08: 08:		040		1479 1419	36030 35919		683 687						146								
				10	050		1356	3582	_	693	0.0)1273	9 0	797		120								
			08		050		1356	35820		693						120								
			08.		057		1316	35759		696						117								
				TD.	060		1259	3566		700	00	01225	9)	922		102								
			08	S TD	060		1259 1021	35655 3531		700 717	0.0	01059	3 1	036		030								
			OB.		070		1021	3530		717	0(J 10 J 7	, 1	0,0		030								
				TD	080		0820	3512		735	00	00879	3 1	133		970								
			08		080		0820	35119		735						970								
				TD	090		0600	3491 34909		750 750	0.0	00719	1 1	213		898								
			.80	10	100		0528	3490:		762	0.0	00603	5 1	279		898								
			08		100		0528	34945		762		0000		- 17		886								
			5	TD	110	0	0505	3499	2	768	0 (00554	8 1	337	14	894								
			08	-	110		0505	34989		768						894								
			OB:	S TD	115		0479 0479	34985 3499		771 771	0.0	00531	1 1	391		900								
			0B.		120		0479	34989		771	0(,0,51	1 1	J 7 1		900								
				10	130		0456	3499		774	0.0	0510	9 1	443		907								
			08		130		0456	34985		774						907								
				TD	140		0448	3500		775	00	00503	0 1	494		921								
			08		140		0448	34999 3499		775 776	0.0	00495	.0 1	5		921								
			0B.	TD S	150		0430	3498		776	U	JU470	, 1	544		930								
							-		_															

											_							1 44.4**				_		1		1
REFERENC	- 5	HIP	LATITU	DE	LONGITE	JDE =	MA SC	RSOEN .	STATION	TIME	Y	EAR		RIGINA	TOR'S ATION		DEPTH	DEPTH		WAVE ERVATIONS	WEA- THER	CLOUD		,	NODC TATION	
CODE NO	. co	DE	*	1/10		1/10	10°		MO DAY				CRUISE NO.		JMBER		BOTTOM	S'MPL	I.	HGT PER SE		TYPE AM		١	UMBER	
3180	07 6	V	4317	ON	0415	00W	14		11 09	090	1	966		075	5		4755	15	12	2 2	X 2	0 3			0089	
' '	1	- 1		'		'	,	WA	TER	WIND		BARO	_ A	R TEM	P. *C	VIS,	NO.		CIAL		,			,		
								COLOR	TRANS. D	IR. O	R	M ETEI	R D	Y I B	WET	CODE	OBS.		/ATIONS							
								DT		1 50		13	_	94	183	7	26									
	_								30/2	1 30	, ,	13	7 1				_	1		T						$\overline{}$
	AA E	SENGR	CAST	CARE		EPTH (m	3	7 ℃	5 */	. 51	GM/	1-1	SPECIFIC	VOLUA	E DY	△ D N. M. 10 ³	SOI	UND OCITY	O2 ml/l	PO4-P µg - a1/1	TOTAL-P pg = a1/1	NO2-N ng - 01/1	NO3-N	51 O4-51 1/10 - 01/	рН	c c
		1/10		1,11,					-			-			X	10-3	-			74 - 4.7.	pg - 0.7.	pg - o.,,	µg - at/l	pg - 011	-	-
				 ST		0000		1765	3522	ا	55	, 1	002	. 5 2 /	.	000	1.5	157			i				1	
		090		089		0000		1765	3521		55		002	* J C -	, 0	000		157								
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STD 1100 0459 3498 2772 0005013 1108 14875 O85 1100 0459 34975 2772 14875 STD 1200 0440 3498 2774 0004869 1158 14884 OBS 1200 0440 34975 2774 14884 STD 1300 0419 3497 2776 0004731 1206 14892 OBS 1300 0419 34970 2776 14892 STD 1400 0399 34970 2778 0004564 1252 14900 OBS 1400 0399 34970 2778 0004632 1298 14913												000	1531	4	105	7									
08s 1100 0459 34975 2772 14875 STD 1200 0440 3498 2774 0004869 1158 14884 OBS 1200 0440 34975 2774 STD 1300 0419 34977 2776 0004731 1206 14892 OBS 1300 0419 34970 2776 14892 STD 1400 0399 3497 2778 0004564 1252 14900 OBS 1400 0399 34970 2778 14900 STD 1500 0389 3496 2778 0004632 1298 14913												000	501	3	110	8									
STD 1200 0440 3498 2774 0004869 1158 14884 0BS 1200 0440 34975 2774 14884 STD 1300 0419 34977 2776 0004731 1206 14892 0BS 1300 0419 34970 2776 14892 STD 1400 0399 34970 2778 0004564 1252 14900 0BS 1400 0399 34970 2778 0004632 1298 14913												000	1001	,	1 - 0	0									
STD 1300 0419 3497 2776 0004731 1206 14892 OBS 1300 0419 34970 2776 14892 STD 1400 0399 3497 2778 0004564 1252 14900 OBS 1400 0399 34970 2778 14900 STD 1500 0389 3496 2778 0004632 1298 14913				STD	120	0	0440)	3498	27	774	000	486	9	115	8	148	384							
OBS 1300 0419 34970 2776 14892 STD 1400 0399 3497 2778 0004564 1252 14900 OBS 1400 0399 34970 2778 14900 STD 1500 0389 3496 2778 0004632 1298 14913														,		,									
STD 1400 0399 3497 2778 0004564 1252 14900 OBS 1400 0399 34970 2778 14900 STD 1500 0389 3496 2778 0004632 1298 14913												000	1473	1	120	6									
OBS 1400 0399 34970 2778 14900 STD 1500 0389 3496 2778 0004632 1298 14913												000	1456	4	125	2									
STD 1500 0389 3496 2778 0004632 1298 14913												000				_									
085 1500 0389 34955 2778 14913				STD			0389	9				000	1463	2	129	8									
				085	150	0	0389	9	34955	27	778						149	913							

														T 444"					1			
REFERENCE	SHIP	LATITU	OE L	ONGITUOE	MARSOEN SQUARE	STATION TIP	ME	YEAR	CRUISE	RIGINA	TATION	{	OEPTH TO	MAX. OEPTH	OBS	WAVE ERVATIONS	WEA- THER	Crono		51	ATION	
CODE NO.	COOE	*	1/10	* '1/10 PZ	10' 1'	MO OAY HE			HO.		UMBER		MOTTON	S'MPL'S	1	HGT PER SEA		TYPE AMI	r		UMBER	
318007	EV	4322	ON O	43100W	149 33	11 09 1	51	1966		07	7		4755	15	34	3 2	X 2	0 3			0091	
	, ,		'	1 1	WAI	rer w	INO	BARC) A	IR TEM	P. °C	TVIK	NO.	100	CIAL		,					
					COLOR	TRANS. OIR.	SPEED	METE	R O	RY JLB	WET	CODE	OBS. OEPTHS	OBSERV								
					OT	50 34	S15			78		7	27									
						30 34	317	1 13	2 1	10	161	_	_				- 1					-
	MESSENGR TIME 0	CAST	CARO	OEPTH (m)	r ℃	s */	SIG	MA-T	SPECIFIC	VOLUA	ΛΕ 0.	△ 0 N. M (10 ³	so	DOUTY	O 2 ml/l	PO4-P	TOTAL-P	NO ₂ -N	NO3-N	SI O 4-Si	рН	S C
	HR 1/10	NO.	TYPE				_		ANOMA			(10 ³	AFL	JUIN		μg • α1/1	μg • α1/ί	µg - al/1	pg - 61/1	yg - ot/l		
								1			-										l	11
			STO		1859	3585		79	002	212	8 0	000		192								
	151		085	0000	1859 1859	35850 3585		79	002	216	3 0	022		192								
			STC OBS	0010	1859	35850		79	002	210	<i>5</i> 0	022		194								
			STD		1859	3585		79	002	219	8 0	044		195								
	002	2	OBS	0020	1859	35850		79						195								
			STE		1859	3585		79	002	223	3 0	067		197								
			085	0030	1859	35850		79						197								
			08S ST[0045	1859 1822	35850 3587		79	002	127	2 0	110		199								
			085	0050	1822	35870		90	002	1	_ 0	- 10		190								
			STO		1792	3581		93	002	108	3 0	163		185								
			085	0075	1792	35810		93					15	185								
			ST		1845	3633		19	001	866	0 0	213		210								
			085	0100	1845	36330		19				157		210								
			STO	0125	1761 1761	3638 36375		44	001	642	/ 0	457		191								
			085 ST0		1735	3643		554	001	554	3 0	496		188								
			085	0150	1735	36425		54	001		_	- , .		188								
			ST		1669	3634		63	001	480	9 0	372		175								
			085	0200	1669	36340		63						175								
			ST		1547	3611		74		392		444		143								
			STI	0300	1457 1457	3596 35955		82	001	327	7 0	512		121								
			08S		1372	3589		95	001	227	7 0	640		109								
			085	0400	1372	35890		95						109								
			085	0470	1291	35755		701						092								
			085	0480	1307	35800	_	702		170		7		100								
			STO	0500 0500	1300	3580		703	001	179	0 0	760		101								
			085 085	0520	1300 1283	35795 35780		703 705						098								
			510		1041	3536		718	001	036	2 0	871		022								
			085	0600	1041	35355		718						022								
			STO		0860	3516		732	000	895	9 0	968		969								
			085	0700	0860	35155		732	000	740	2 1	05.6		969								
			570 085	0800	0720 0720	3509 35085	_	748 748	000	746	2 1	050		+931 +931								
			STI		0580	35085		167	000	555	2 1	115		+892								
			085	0900	0580	35090		767	000			- 1 -		892								
			ST	1000	0524	3512	2	776	000	473	1 1	166	5 14	+887								
			085	1000	0524	35115		776						887								
			STI		0492	3514		781	000	427	2]	211		+891								
			085 STI	1100	0492 0471	35135 3513		781 783	000	413	0 1	.253		+891 +899								
			085	1200	0471	35130		783	000	413	7]	45.		+899								
			51		0448	3512		785	000	404	9]	294		+906								
			085	1300	0448	35115	2.	785					14	906								
			ST		0419	3510		786	000	391	0 1	334		910								
			085	1400	0419	35095 3510		786	000	304	6 1	171		4910								
			ST 085	D 1500 1500	0407	3510		788 788	000	384	0 1	.373		+922 +922								
			003	1,000	0407	550,5	-						1.	,,,,								

REFEI	ENCE	tu:s			-=	MARSDEN	STATION TIA			IATDR'S		DEPTH MAX		WAVE	WEA-	CLOND		ND	DC	
300	ID.	CODE	LATITUI •	1/10 LON	GITUDE TO	SQUARE	(GMT)	YEAR	[CEU13E]	STATIOH HUMBER		TO DEPTH OF S'MPL	0,73	HGT PER SE	THER	TYPE AMT		STA	TION	
3 1	8007	EV	4335	ON 04	3380W			86 196			4	755 15	34	6 4	X 2	0 3		0	092	
						COLOR	TRANS DIR	SPEED MI	TER DRY	MP. ℃ WET	VIS.	DOS- Mecco.	ECIAL VATIONS							
						DT	50 34	FORCE	49 161	144	1	36								
		MESSENGR TIME	CAST NO.	CARD TYPE	DEPTH (m)	1 %	s */.	SIGMA-T	SPECIFIC VOLE	ME E	ΔD,	SDUND VELOCITY	O ₂ ml/l	PO ₄ -P pg - 01/1	TOTAL-P pg - 01/I	NO2-N ug - at/1		1 O 4 - Sr rg - a1/1	рН	500
		HR 1/10					-			+	103			7, 2,7	7) - doi:	-		
		186		STD OBS	0000	1892 1892	3596 35960	2579 2579	002212	7 0	000	15203 15203	1	, ,		•				
		100	,	SID	0010	1893	3596	2579	002218	37 0	022	15205								
				OBS STD	0010	1893 1894	35960 3598	2579 2580	002213	38 0	044	15205 15207								
		00	2	OBS	0020	1894	35975	2580				15207								
				STD OBS	0030	1894 1894	3601 36010	2583 2583	00219	19 0	066	15209 15209								
				STD OBS	0050	1873 1873	3603 36025	2589 2589	00213	71 C	110	15206 15206								
				STD	0075	1869	3605	2592	00212	17 0	163	15209								
				085 STD	0075 0100	1869 1826	36045 3615	2592 2611	001950	00 0	214	15209 15203								
				085	0100	1826	36150	2611	001750	,, .	-14	15203								
				OBS OBS	0105 0115	1805 1821	36410 36480	2636 2637				15200 15208								
				STD	0125	1801	3649	2642	001651	72 0	259	15203								
				08S ST0	0125 0150	1601 1779	36485 3650	2642	001606	55 0	300	15203 15201								
				085	0150	1779	36495	2649				15201								
				STD	0200 0200	1703 1703	3641 36405	2660 2660	00151	16 0	378	15186 15186								
				STD	0250	1660	3635	2666	001469	96 0	452	15181								
				OBS STD	0260 0300	1640 1523	36315 3606	2668 2675	00139	58 C	524	15176 15143								
				085	0300 0340	1523	36055	2675				15143 15115								
				OBS STO	0400	1421 1383	35865 3592	2683 2695	00123	20 0	655	15113								
				085 085	0400 0465	1383 1289	35915 35705	2695 2698				15113 15090								
				OBS	0476	1308	35785	2700				15090								
				STD	0500	1156	3538	2698	00120	73 (777	15046								
				OBS OBS	0500 0560	1156 0990	35375 35220	2698 2716				15046 14995								
				OBS STD	0580 0600	1006 0907	35275 3510	2718 2720	00099	72 (887	15005 14969								
				085	0600	0907	35095	2720	000,7		001	14969								
				OBS OBS	0620 0677	0841 0823	35055 35110	2727 2735				14947								
				OBS	0690	0707	34930	2737			0.5	14906								
				STD OBS	0700 0700	0718 0718	3498 34975	2739 2739	00080	90 0	978	14912								
				oBs	0765	0746	35250	2757				14938								
				OBS STO	0785 0800	0689 0702	35150 3516	2757 2756	00066	79	051	14917 14925								
				OBS STD	0800	0702 0545	35155 3502	2756 2766	00055	20 1	113	14925 14877								
				085	0900	0545	35020	2766	00000	90]	. 1 1 3	14877								
				STD OBS	1000 1000	0494 0494	3499 34985	2769 2769	00052	88 1	167	14873 14873								
				STD	1100	0479	3502	2773	00049	81 1	219	14884								
				OBS STD	1100 1200	0479 0456	35015 3500	2773 2774	00049	3.2 1	468	14884								
				OBS	1200	0456	34995	2774				14891								
				STD	1300 1300	0439	3499 34990	2776 2776	00048	46	317	14900								
				STD	1400	0420	3499	2777	00047	29	365	14909								
				OBS STD	1400 1500	0420	34985 3498	2777 2779	00046	44	412	14909								
				OBS	1500	0401	34975	2779	00040			14918								

																									1
ERE	NCE	SHIP	LATITUI	DE LO	NGITUDE SOUTION	M.A.	RSDEN	STATION 1	IME	YEAR	CRUIS	DRIGIN	ATOR"		DEPTH	DEFIR	: 1	WAVE ERVATIONS	W: TH	EA-	CLOUD			NODC	
E	NO.	CODE	*	1/10	NGITUDE NGITUDE	10°	110	MD DAY			NO.		IUMBE		BOTTO	M S'MPL	1	HGT PER SE		DE	TYPE AMT			NUMBER	_
18	3007	ΕV	4345	ON 04	44260W	14	9 34	11 09	22	1 1966		07	9		475	5 15	02	5 3	X	(2	0 3			0093	3
							WAT		WIND	BARI)	AIR TEA		VIS.	NO.	SPI	CIAL								
							CODE	TRANS. DIR.	76	DR (mbi	R L)	DRY BULB	W E1	CODE	OBS. DEPTH	OBSER	ZATIONS								
							DT	50 03	-	25 19	3	139	13	3 6	38										
	f	MESSENGE		CARD	T	1			+		18501	IC VOLU			1 50	סאטכ		PD4~P	TOTAL		ND2-N	NO3-N	51 04-5		s
		MESSENGR TIME	ND.	TYPE	DEPTH (m)		T °C	s ·/	2	SIGMA-T	ANO	MALY-XI	0.7	₹ △ D DYN. M. x 10 ³		LOCITY	D2 ml/l	µg = a1/1	μg - 0		μg = at/l	yg - at/1	10 - 01		C
		HR 1/10	1						+				_							\top					
				STD	0000	ī	1744	3498	1	2541	00	2578	5 '	0000	1	5148		'							
		22	l	085	0000		1744	34975		2541		05.04	_			5148									
				STD	0010		1744	3498 34975		2541 2541	00	2581	8	0026		5150 5150									
				STD	0020		1759	3498		2537	00	2619	6	0052		5156									
		002	2	085	0020		1759	34975		2537					1	5156									
				OBS	0025		1761	34995		2538	0.0	2/12	r	01170		5158									
				STD 085	0030		1780 1780	3506 35055		2538 2538	00	2613	2	0078		5165 5165									
				STD	0050		1868	3560		2558	00	2436	9	0128		5200									
				085	0050		1868	35595		2558						5200									
				085	0055		1887	35725		2563	0.0	2120	2	0107		5207									
				ST0 085	0075 0075		1825	3588 35875		2590 2590	00	2139	3	0186		5195 5195									
				OBS	0090		1819	36180		2615						5199									
				STD	0100		1620	3596		2645	00	1618	1	0233		5139									
				085	0100 0125		1620 1599	35955 3606		2645 2658	00	1506	0	0272		5139 5138									
				STD 085	0125		1599	36055		2658	00	1500	7	0212		5138									
				STO	0150		1480	3591		2673	00	1364	0	0308		5103									
				OBS	0150		1480	35910		2673		1100				5103									
				STD	0200 0200		1208	3543 35430		2693 2693	00	1189	0	0371		5016 5016									
				STD	0250		1099	3530		2703	00	1098	7	0429		4984									
				085	0260		1049	35205		2705						4967									
				08S	0280 0290		0921	34950 35258		2706 2718						4920 4954									
				STD	0300		0946	3506		2711	0.0	1029	9	0482		4934									
				085	0300		0946	35055		2711						4934									
				085	0308		0960	35250		2723						4943									
				085 085	0312		0902	35150 35200		2725 2727						4921 4928									
				085	0371		0800	34990		2729						4890									
				ST0	0400		0793	3506		2735	0.0	0806	2	0574		4893									
				085	0400		0793	35060		2735						4893									
				085 085	0425		0694	34950 35050		2741 2745						4857 4871									
				085	0465		0630	34900		2746						4838									
				085	0475		0680	35050		2751						4861									
				STD 085	0500 0500		0638	3499 34985		2751 2751	00	0656	3	0647		4848 4848									
				085	0579		0490	34870		2761						4800									
				ST0	0600		0499	3490		2761	0.0	0555	7	0707	1	4807									
				08S STD	0600 0700		0499	34895 3495		2761 2768	0.0	0502	0	0760		4807 4817									
				085	0700		0480	34950		2768	00	0502	7	0 / 00		4817									
				STD	0800		0466	3499		2772	00	0470	7	0809		4828									
				085	0800		0466	34985		2772						4828									
				STD	0900 0900		0453	3499 34985		2774 2774	00	0465	2	0856		4839 4839									
				STD	1000		0440	3499		2775	0.0	0459	3	0902		4851									
				085	1000		0440	34985	5	2775					1	4851									
				510	1100		0420	3498		2777	0.0	0451	4	0948		4859									
				08S STD	1100 1200		0420	34975 3500		2777 2777	0.0	0462	0	0993		4859 4882									
				085	1200		0435	35000)	2777	0.0	, , , ,		5.75		4882									
				STD	1300		0400	3499		2780	0.0	0437	6	1038		4884									
				OBS STD	1300 1400		0400	34985		2780 2781	0.0	0432	4	1082		4884 4896									
				085	1400		0389	3498		2781	00	0452	4	1082		4896									
				STD	1500		0378	3498		2781	0.0	0430	6	1125	1	4908									
				085	1500		0378	34980		2781					1	4908									

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REFERENCE	SHIP	LATITU	DF LO	NGITUDE SUCCES	MARSDEN SQUARE	STATION TIN	AE YEAR	ORIGINATE	-	DEPTH DEPT		WAVE ERVATIONS	WEA- THER	CLOUD		N ST.	DDC ATION
CODE ND.	CODE	•	1/10	1710	10" 1"	MO DAY HR	,1/10	NO. NUA	ABER	S'MPL	_	HGT FER SEA	CODE	TYPE A MT		NU	JMBER
31800	7 EV	4353	ON 04	+5080W	149 35	1	24 196	A ID TE SAD		4641 1	5 01	3 2	X 2	0 3			0094
					CDLOR	TRANS. DIR.	SPEED ME	ER DRY W	VIS.	NO. SP OBS. DESER	VATIONS						
					DT	5D 34	525 1		17 5	29							
	MESSENGR	CAST	CARD					SPECIFIC VOLUME	≨ △ D DYN, M,	SDUND		PO ₄ -P	TOTAL-P	NO2-N	NO3-N	SI O4-Si	
	HR 1/10	ND.	TYPE	DEPTH (m)	T *C	s *4.	SIGMA-T	ANOMALY-X107	X 10 ³	VELDCITY	O2 ml/l	μg - σ1/l	μg = α1/l	μg - αt/l	yg - at/l	µg - at/l	pН
					1507	24.12	2512	00000400	0000	15090							
	02	4	STD OBS	0000	1587 1587	3413 34125	2512 2512	0028489	0000	15090							
			ST0	0010	1591	3412	2511	0028641	0029	15093							
			OBS STD	0010 0020	1591 1591	34120 3412	2511 2511	0028671	0057	15093 15095							
	00.	2	085	0020	1591	34120	2511	0020071	0001	15095							
			OBS	0025	1596	34120	2510	00000775	0001	15097							
			STD OBS	0030	1601 1601	3415 34145	2511 2511	0028735	0086	15100 15100							
			0B5	0044	1719	34755	2530			15145							
			STD	0050	1660	3485	2551	0024991	0140	15130							
			OBS STD	0050 0075	1660 1280	34845 3522	2551 2662	0014459	0189	15130 15017							
			260	0075	1280	35220	2662	002	0-07	15017							
			OBS	0082	1193	35075	2668	0-10/70	0.100	14987							
			STD	0100	1285 1285	3549 35485	2682 2682	0012679	0223	15026 15026							
			0B5	0110	1299	35525	2682			15033							
			STD	0125	1245	3548	2689	0012022	0254								
			OBS	0125	1245 1204	35480 3545	2689 2695	0011577	0283	15017 15006							
			STD	0150	1204	35445	2695	0011377	0203	15006							
			STD	0200	1120	3536	2703	0010836	0339								
			OBS	0200	1120	35355	2703	0009879	0391	14984							
			STD	0250 0300	1031	3529 3522	2714 2724	0009067	0438								
			OBS	0300	0945	35220	2724			14936							
			STD	0400	0786	3508	2738	0007813	0523	14891 14891							
			085 085	0400	0786 0709	35080 35120	2738 2 7 52			14871							
			STD	0500	0635	3504	2756	0006152	0593	14848							
			0B5	0500	0635	35035	2756			14848							
			085 STD	0515 0600	0589 0553	34985 3500	2758 2763	0005462	0651	14831 14831							
			OBS	0600	0553	35000	2763			14831							
			STO	0700	0509 0509	3500 35000	2769 2769	0005022	0703	14829							
			OBS STD	0700 0800	0509	3500	2773	0004684	0752								
			OBS	0800	0473	35000	2773			14831							
			STO	0900	0455 0455	3501 35005	2775 2775	0004530	0798	14840 14840							
			085 510	0900 1000	0455	35005	2777	0004446	0843								
			OBS	1000	0440	35005	2777			14851							
			STO	1100	0421	3499	2778	0004417	0887	14859 14859							
			OBS ST0	1100 1200	0421	34990 3499	2778 2779	0004373	0931								
			OBS	1200	0410	34990	2779			14872							
			STD	1300	0387	3499	2781	0004210	0974								
			0B5 STD	1300 1400	0387	34985 3499	2781 2782	0004209	1016	14879							
			OBS	1400	0380		2782	000-207	1010	14892							
			STD	1500	0378	3499	2782	0004269	1058								
			OBS	1500	0378	34985	2782			14908							

DOE NO. COUR 1/10 1/10 2 10 1 1 MO DAY HR.J/10 NO. NUMBER 10110M SYMPL'S OR MOTERS SEA COOR 1/10 1/10 1/10 0 0 0 0 0 0 0 0 0 0 0 0	
COLOR TRANS DIR. SPECIAL OR WELT SPECIAL OR OR OR OR OR OR OR O	
CODE	
MESSENGR CAST CARD DEPTH (m) T C S 1. SIGMA-T SPECIFIC VOLUME SAD DYN. M. SOUND O2 ml/I PO4-P TOTAL NOMALY_X107 X 103. VELOCITY O2 ml/I P9 - et/I P9 -	
HR 1/10 NO. 1792	
HR 1/10	- a1/1 µg - a1/1 µg - a1/1 µg - a1/1
STD 0000 1468 3374 2509 0028809 0000 15048	
056 OBS 0000 1468 33740 2509 15048 STD 0010 1469 3374 2509 0028857 0029 15050	
08s 0010 1469 33740 2509 15050	
STO 0020 1469 3374 2509 0028885 0058 15052 002 085 0020 1469 33740 2509 15052	
OBS 0025 1469 33740 2509 15053	
STD 0030 1469 3374 2509 0028913 0087 15053 0BS 0030 1469 33740 2509 15053	
085 0030 1469 33740 2509 15053 085 0039 1509 34140 2531 15073	
OBS 0046 1400 33800 2528 15034	
085 0049 1508 34750 2578 15081 STD 0050 1489 3495 2598 0020536 0136 15078	
08s 0050 1489 34950 2598 15078	
08S 0052 1421 3430P 2562P 08S 0055 1535P 3565P 2641P	
OBS 0058 1334 3410P 2565P	
085 0066 1164 3429P 2613P 085 0068 1189 3500P 2663P	
OBS 0072 1101 3460P 2648P	
STD 0075 1144 3512 2681 0012686 0178 14969	
085 0075 1144 35120 2681 14969 085 0080 1128 34950 2670 14962	
STD 0100 1254 3539 2680 0012822 0209 1 5014	
085 0100 1254 35385 2680 15014 085 0106 1251 35350 2678 15014	
OBS 0114 1167 35125 2677 14984	
STD 0125 1250 3553 2692 0011750 0240 15019 OBS 0125 1250 35530 2692 15019	
STD 0150 1215 3546 2694 0011671 0269 15010	
OBS 0150 1215 35460 2694 15010 STD 0200 1122 3536 2703 0010872 0326 14985	
085 0200 1122 35355 2703 0010072 0326 14985	
STD 0250 1052 3528 2710 0010312 0379 14967	
STD 0300 0959 3521 2720 0009407 0428 14941 085 0300 0959 35205 2720 14941	
STD 0400 0701 3502 2745 0007021 0510 14857	
08S 0400 0701 35020 2745 14857 08S 0418 0669 34970 2746 14847	
OBS 0429 0700 35105 2752 14862	
STD 0500 0601 3503 2760 0005733 0574 14834 085 0500 0601 35030 2760 14834	
08S 0500 0601 35030 2760 14834 STD 0600 0539 3504 2768 0004986 0628 14826	
OBS 0600 0539 35040 2768 14826	
STD 0700 0498 3503 2772 0004662 0676 14825 08S 0700 0498 35030 2772 14825	
STD 0800 0467 3503 2776 0004387 0721 14829	
OBS 0800 0467 35030 2776 14829 STD 0900 0443 3503 2779 0004195 0764 14836	
OBS 0900 0443 35030 2779 14836	
STD 1000 0425 3503 2780 0004073 0805 14845 0BS 1000 0425 35030 2780 14845	
STD 1100 0406 3502 2781 0004045 0846 14853	
08S 1100 0406 35015 2781 14853 STD 1200 0409 3503 2782 0004066 0886 14872	
0BS 1200 0409 35030 2782 14872	
STO 1300 0398 3503 27B3 0004056 0927 1 4884	
OBS 1300 0398 35025 2783 14884 STD 1400 0392 3503 2784 0004070 0968 14898	
OBS 1400 0392 35025 2784 14898	

TABLE IV .-- Continued

							Τ.	ABI	Æ I	. V •	- U0	nu	nu	ea										
REFERENCE	SNIP	LATITU	DE LO	DOUGITUDE JUNGITUDIO	MARSI	DEN ARE	STATION TI	ME	YEAR		ORIGINA		\Box	DEPTH	MAX		WAVE ERVATION	ıs	WEA- THER	CLDUD			NODC TATION	
CTRY ID.	CDDE	•	1/10	1/10	10°		MD DAY H	1.1/10		CRUI NO		UMBER		BOTTON	S'MPL		HGT FER		CODE	TYPE AMI	-		UMBER	
31 8007	EV	4409	0 100	46310W	149	46		97 INO	1966	بــــــــــــــــــــــــــــــــــــــ	083			3931	15	02	2 2		X 2	0 3	1	l	0096	
					t	COLOR	TRANS. DIR	SPEED		ER	DRY	WET	VIS. CODE	DBS. DEPTHS		ECIAL VATIONS								
					-	DT	SD 04	S20		-	BULR 094	078	7	37										
	MESSENGR	CAST	CARD	T	1						IFIC VOLUA		A D		UND		PO4-P	Τ,,	OTA L-P	NO2-N	NO ₃ -N	SID4-S		s
	TIME (ND.	TYPE	DEPTH (m)	T	τ	s */	SIG	MA-T	ANG	OMALY-X10	, D	YN. M. X 10 ³	VEL	OCITY	0 2 ml/l	μg - α1/		rg - a1/1	μg - ol/l	µg - ot/I	μg - a1/		c
			570	0000	1	240	3343	1		1	, , , , , ,	,	000	1,6	009			ļ						
	09	7	STD OBS	0000		360 360	33430		808	0(02893	2 0	000		009									
			STD OBS	0010		360 360	3342 33420		07	0.0	02903	1 0	029		011									
			STD	0020		360	3343	2.5	07	00	02902	0 0	058	15	012									
	002	2	OBS OBS	0020 0025		360 451	33425 33655		07						012									
			STD	0030	1	473	3390	2.5	20	0.0	02786	0 0	086	1.5	057									
			08S 08S	0030		473 493	33895 34105		32						057									
			STD	0050	1	160	3404	2.5	93	00	02089	5 0	135	14	957									
			085 085	0050 0061		160 B23	34035 34020		93						957 835									
			OBS	0066	10	073	35040	26	87					14	941									
			08s STD	0071 0075		027	34945 3514		88 89	0.0	01193	9 (176		925									
			OBS	0075	1.	110	35140	26	89		012/5		, - 10	14	957									
			OBS STD	0079 0100		024	34945 3535		89 98	0.0	01111	0 0	205		925									
			OBS	0100	1	147	35350	26	98					14	977									
			0BS STD	0108 0125		169	35365 3526		595 597	01	01122	9 (233		+986 +968									
			OBS	0125	1	113	35260	26	597					14	968									
			STD OBS	0150 0150		027	3513 35125		702 702	01	01080	0 ()261		+940 +940									
			OBS	0161	0	992	35115	2	707						929									
			0BS STD	0180 0200		906	35265 3504		705 716	01	00956	4 (311		+962 +903									
			085	0200		906	35040		716	^	00700	, ,			4903									
			51D 085	0250 0260		809 789	3507 35070		733 737	0	00798	4 (355		4874 4869									
			OBS	0270		812	35130		738	0	00736	0 (394		4880 4872									
			STD OBS	0300 0300		780 780	3511 35105		741 741	U	00735	0 (1290		4872									
			STD	0400		631	3506 35055		758 758	0	00580	3 ()459		4830 4830									
			OBS OBS	0400 0450		631 570	35040		764						4813									
			STD	0500		566	3506		766	0	00509	1 ()514		4820									
			OBS STD	0500 0600		566 496	35055 3505		766 774	0	00437	1 (0561		4820 4808									
			OBS	0600		496	35050		774						4808 4814									
			0B5 0B5	0640 0650		495 517	35045 35115		774 777						4814									
			STD OBS	0700 0700		490 490	3505 35050		775 775	0	00441	3 (0609		4822 4822									
			510	0800		450	3505		779	0	00402	9 (064	7 1	4822									
			OBS STD	0800		450 427	35050 3505		779 781	0	88 C C O	7 (0087		4822 4829									
			OBS	090ú	0	427	35045	2	781					1	4829									
			ST0 08S	1000		410			781 783P		00403	6 (072	7 1	4838									
			510			411	3498	2	778	0	00436	5 (0769	9 1	4855									
			OBS	1100 1200		411 378	3504P 3497		783P 780		00415	6	081	1 1.	4858									
			STC OBS	1200	0	378	34965	2	780					1	4858									
			STO	1300 1300		376 376			780 780	0	00421	8	085		4874 4874									
			STO	1400	0	372	3497	2	781	0	00421	6	0899	5 1	4889									
			OBS OBS	1400 1480		372			781 781						4889 4901									
			003	1400	O	500	24707	2						-	, , ,									

[REFERE	NCE	SHIP			E E	MARS			TION		WF.1.5		ORIGIN	IATOR'S		DEPTH	MAX. DEPTH	0.00	WA	VE ATIONS		EA-		DES DES	NODC
	CTRY	NO.	CODE	LATITUDE 1/10	LONGITUDE '1/10	DRIF	10*	1°			HR.1/10	YEAR	CRUISE NO.		NOITAT?		BOTTOM	O.F			PER S		HER DDE	TYPE		STATION NUMBER
	318	007	EV	4416 N	04712 N		149	47	11	10	142	1966		0.8	3 3		4023	15	35	2	2	,	K1	6	7	0097
								WA	TER	1	WIND	BARC		AIR TE	MP. °C		NO.	SPEC	141							
								COLOR	TRANS (m)	OIR.	SPEED OR FORCE	METE	R ·	DRY BULB	WET	VIS.	OBS. DEPTHS	OBSERV								
										33	515	27	4]	00	078	7	14									

MESSENGR TIME O	CAST NO.	CARD TYPE	QEPTH (m)	7 ℃	s */.	SIG M A - T	SPECIFIC VOLUME	₹ △ 0 DYN. M. x 10 ³	SOUND	O2 ml/1	₽O4∞₽ μg = ο1/1	101AL-P 49 - 01/1	NO2-N µg - at/l	NO3-N yg - al/l	\$1 O4-\$i ug + at/1	рН	200
	1 1	STD	0000	1314	3343	2517	0028064	0000	14994	1)	I					1 '
142		OBS	0000	1314	33428	2517		0.00	14994								
		STD	0010	1316	3344	2517	0028068	0028	14996								
142		085	0010	1316	33436	2517	000000	0020	14996								
		STD	0020	1249	3393	2568	0023207	0054	14981								
142		OBS	0026		34131	25300											
		STD	0030	1184	3413	2597	0020547	0U76	14963								
		STD	0050	1055	3415	2621	0018245	0114	14921								
142		085	0051	1049	34150	2622			14919								
		STD	0075	0871	3438	2670	0013664	0154	14860								
		STD	0100	0744	3456	2703	0010541	0185	14818								
142		OBS	0103	0733	34582	2706			14815								
		STD	0125	0705	3466	2715	0009306	0209	14809								
		STD	0150	0675	3473	2726	0008424	0231	14802								
142		085	0153	0672	34742	2727			14801								
		STD	0200	0630	3482	2739	0007242	0271	14793								
142		OBS	0205		34826	27430											
		STD	0250	0591	3488	2749	0006370	0305	14787								
		STD	0300	0555	3493	2758	0005617	0335	14781								
142		085	0308	0550	34934	2758			14780								
		STD	0400	0498	3494	2765	0004991	0388	14774								
142		OBS	T0437	0482	34940	2767			14774								
		STD	0500	0466	3494	2769	0004704	0436	14778								
		STD	0600	0446	3494	2771	0004554	0482	14786								
142	-	085	T0615	0443	34944	2772			14787								
		STD	0700	0434	3495	2773	0004472	0528	14798								
		STO	0800	0422	3495	2774	0004430	0572	14809								
142		OBS	0820	0419	34954	2775			14811								
		STD	0900	0402	3494	2776	0004346	0616	14817								
		STD	1000	0387	3493	2776	0004376	0060	14828								
142	-	085	T1026	0384	34922	2776			14831								
		STD	1100	0381	3492	2777	0004407	0704	14842								
		STD	1200	0377	3493	2777	0004431	0748	14857								
142	2	OBS	1232	0376	34927	2777			14862								
		STD	1300	0374	3493	2778	0004450	0792	14872								
		STD	1400	0371	3493	2778	0004497	0837	14888								
		STD	1500	0368	3493	2779	0004542	0885	14904								
142	-	OBS	T1540	0367	34930	2779			14910								

															,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											
CTRY CODE	ID. NO.	SHIP	LATITU	1/10	LONGITUOE	DRIFT	MAR! SQU	DEN ARE	STAT	ION TI		YEAR	CRUISE NO.		OR'S TION MBER		DEPTH TO BOTTOM	DEPTI OF S'MPL	OBS	WAVE ERVATIONS	WEA THER COD				NODC STATION NUMBER	
-	8007	EV	4420		047320W	1	149	+			\rightarrow	1966	-	84			3840	15		3 3	×1				0098	
				, , , ,				WA			IND	BARC	T 4 10	TEMP			NO.		ECIAL	12121	1 ^1	1 013	1	J	0070	
								COLOR	TRANS.	DIR.	SPEED DR FDICE	METE	R ORY		WET BULB	CDDE	OBS. DEPTHS	OBSER	VATIONS							
								DT	50	35	508	27	4 12.	2	094	7	29					,				_
		MESSENGR TIME G	CAST NO.	CARD TYPE	OEPTH	(m)	Т	*C	S	٠/٠.	SIGA	/A-T	SPECIFIC VI	DLUM!	DY X	△ D N. M. 10 ³	VELO	DCITY	O2 ml/l	PO4-P yg = 01/I	TDTAL-1 #9 - 01/1		NO3-N ug - at/l	\$1 O4-5		SCC
				ST	0 000	0	1	382	33	5.8	2.5	15	0028	250	1	Joo	15	018								
		167	?	085				382		580	25		0020	_00		000		018								
				ST				382	33		25		0028	286	0	028		020								
				085				382		580	25		0030	212	_	0 = 7		020								
		002	,	ST OBS				382	33	580	25 25		0028	513	U	057		022								
		002	-	085				383		585	25							023								
				ST				383	33		25		0028	322	0	085		024								
				085				383		585	25							024								
				OBS				385		590	25		0034	105	^	127		026								
				ST OBS				155	33 33	วช 575	25 25		0024	195	0	137		949								
				OBS				651		195	26							772								
				ST	D 007	5	0	700	34	48	27		0010	499	0	181		796								
				OBS				700		480	27							796								
				ST				688	34		27		0008	816	0	∠05		798								
				08S ST				688	34	690	27 27		0007	257	0	226		798								
				085				694		835	27		0007	וכס	U	220		807								
				OBS				707		870	27							813								
				ST				684	34		27		0007	242	0	245		808								
				085				684		905	27							808								
				OBS				639		880	27							794								
				085 ST				663	34	990	27	48	0006	444	n	279		807 790								
				OBS				620		910		48	0000		·	/		790								
				ST				584	34			55	0005	835	0	310		785								
				ST				548	34		27		0005	345	0	337		779								
				085				548		955	27		0001	701	_	300		779								
				12				1474	34	94 935	27	68	0004	/31	0	388		764								
				085 ST				1474	34		27		0004	483	0	434		764								
				OBS				1456		955	27		0004	, , ,		. ,,4		774								
				ST	D 060	0	C	450	35			75	0004	223	0	477		788								
				085				450		995		75	0.0	1.00		h		788								
				ST)437)437		01		77	0004	100	0	519		800								
				085 ST				1421		005		78	0004	071	ລ	>60		810								
				085				423		000		78	0004					810								
				ST				1409		CO		80	0004	001	. 0	600		821								
				OBS				1449		000		0.8						821								
				ST				396		99		0.8	0004	012	. 0	640		832								
				OBS)396)391		990		80 81	0004	065		081		+832 +847								
				ST OBS				391		987		81	0004	VO 2		-01		+847								
				ST				378		98		81	0004	061	. 0	721		858								
				085	120	0		378		978	27	81						858								
				ST				373		98		82	0004	107	0	762		873								
				085				373		975		82	0001	1.1.4	^	400		873								
				ST OBS				368		98 977		82	0004	114	. 0	803		887 887								
				ST				367		98		83	0004	140	0	845		904								
				085				367		982		83	0004	- +7	J	- 40		904								

SUMBLE S	DES STA NUI 3 0			5	CLOUD CODES	THER				OF	TO L					Calil	YEAR	ME	IGMT)	1	MARSUEN	5 M	CITUDE E					EKENLE	
318007 EV 44230N 047540W 149 47 11 10 185 1966 085 3592 15 35 2 2 X1 0	3 0			_	YPE AM	COBL						9.001								L	300741	9	2 2	DE LOP	ATITU			ID.	CTRY
WATER WIND BARCO AIR TEMP. TO VIS NO. OBS. OBSERVATIONS	-N NO3-N SIO4-Si			1	~ l 3	V 1	A 26				3		`		_	NO	1066			-		10	1710				-	1	
COLOR TAMAS. DIR. SPEECD METER BURY WET COS DEPTHS DEPT	-N NO3-N SIO4-Si				01 2	X 1		2 2	'			┯				_						1,	7540W	ON O4	423	/ "	d cv	Попо	1 21
CODE Implied Force Implied SULP	-N NO3-N S1 O4-Si								TONS	SPEC	DBS. I a.	10	CODE	WE	DRY	R	METE	SPEED	NS DID	R TR	COLOR								
MESSINGE CAST TIME of NO. TYPE DEPTH (m) T 'C S '4. SIGMA-T SPECIFIC VOLUME NO.	-N NO3-N SI O4-Si											4_				_		FORCE	4)										
HR 1/10	-N NO3-N SI O4-Si			-			_					┶					2 2 2	300	30 33	4	01								
STD 0000 1400 3357 2510 0028725 0000 15024 15026 STD 0010 1400 33565 2510 0028788 0029 15026 08S 0010 1400 33560 2510 15026		- 01/1 V9 - 0	NO3-N	N	102-N g - ol/l				0 2 ml/1	TY Y	VELOCI	١.	2 A B 2YN. M.	M E 0 7	FIC VOLU	SPECI	MA-T	SIG/	5 */**		T "C		DEPTH (m)	CARD TYPE	NO.	NGR (MESSEN		
185 OBS 0000 1400 33565 2510 15024 STD 0010 1400 3356 2510 0028788 0029 15026 OBS 0010 1400 33560 2510 15026				+			+	-		-		+	X 10-	+				+		+		+				/10	HR 1/1		
STD 0010 1400 3356 2510 0028788 0029 15026 OBS 0010 1400 33560 2510 15026	1 1 1	1		1		- 1	1	1		24	1502)	0000	5	2872	00					1400	-	0000	STO	- 1	- 1	1		
08S 0010 1400 33560 2510 15026												_			2074											185	1		
												9	0029	8	12878	0.0													
STO 0020 1400 3356 2510 0028814 0058 15027												3	0058	4	2881	0.0													
002 0BS 0020 14 00 33560 2510 1 5027																										002	0		
OBS 0025 1402 33575 2510 15029 STD 0030 1447 3371 2511 0028721 0086 15046													0094	1	2872	0.0													
STD 0030 1447 3371 2511 0028721 0086 15046 OBS 0030 1447 33705 2511 15046												0	0000	7	12012	00													
OBS 0040 1724 35205 2563 15152										52	151						663	25	35205		1724		0040	085					
STD 0050 0919 3409 2640 0016488 0132 14871 OBS 0058 0645 33200 2610 14755												2	0132	8	1648	00													
OBS 0058 0645 33200 2610 14755 OBS 0064 0655 34500 2711 14777																													
OBS 0067 0655 34500 2711 14777																													
STO 0075 0696 3460 2713 0009553 0164 14796												4	0164	3	0955	00													
OBS 0075 0696 34600 2713 14796 OBS 0080 0718 34675 2716 14806																													
STD 0100 0695 3470 2721 0008872 0187 14801												7	0187	2	0887	0.0													
OBS 0100 0695 34695 2721 14801										01	148						721	27	34695		0695		0100						
STO 0125 0724 3481 2725 0008486 0209 14818												9	0209	6	0848	00													
OBS 0125 0724 34805 2725 14818 STD 0150 0741 3493 2732 0007872 0229 14830												9	0229	2	0787	0.0													
OBS 0150 0741 34925 2732 14830														_		•													
OBS 0161 0688 34830 2732 14810																													
OBS 0199 0674 35035 2750 14813 STO 0200 0650 3486 2739 0007241 0267 14802												7	0267	. 1	0724	0.0													
OBS 0200 0650 34855 2739 14802													0401	-	,0,2,		739	27											
OBS 0240 0562 34855 2751 14773													- 2																
STD 0250 0556 3487 2753 0006010 0300 14772 STD 0300 0529 3492 2760 0005375 0329 14770																													
OBS 0300 0529 34920 2760 14770												,	0223		,000,														
STD 0400 0482 3497 2769 0004579 0378 14768												3	0378	9	0457	00								STD					
OBS 0400 0482 34968 2769 14768 STO 0500 0455 3497 2773 0004337 0423 14774												2	0422	7	0// 33	0.0													
STO 0500 0455 3497 2773 0004337 0423 14774 OBS 0500 0455 34973 2773 14774												,	0423	1	0433	00													
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StD 0700 0431 3500 2777 0004065 0507 14797 OBS 0700 0431 35000 2777 14797												I	0507	2	0406	00													
STD 0800 0412 3499 2778 0004036 0548 14806												3	3548	6	0403	00	778	27	3499		0412		0800	STD					
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STD 1000 0399 3499 2780 0004041 0628 14834												3	0628	1	0404	0.0													
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STO 1100 0376 3497 2781 0004022 0669 14840												9	0669	2	0402	00													
OBS 1100 0376 34968 2781 14840 STO 1200 0374 3497 2781 0004092 0709 14856												9	0709	2	0409	0.0													
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STO 1300 0370 3497 2782 0004091 0750 14871)	0750	1	0409	00													
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STD 1500 0362 3498 2783 0004135 0832 14902										2 C	1490	2	0832	5	0413	00	783	27	3498		0362		1500	STD					
OBS 1500 0362 34975 2783 14902										52	1490						783	27	34975		0362		1500	OBS					

	ENCE	SHIP	LATITU	OF	LONGITUDE DELL	MAR	SOEN ARE	MOITAT2	TIME T)	YEAR	Ţ	ORIGINA			OEPTH TO	MAX	H ORS	WAVE ERVATIONS	WEA- THER	CLOUG			NODC	
CODE	10. NO.	COOE	•	1/10	1/10	10°	1"		HR.1/10		C		ATION UMBER		BOTTON	S'MPL		HGT PER SEA		TYPE AMT			NUMBER	
31	8007	ΕV	4425	ON	048060W	149	48	11 10	197	1966	6	08	5		3475	15	33	2 3	Х1	0 3			0100	
							WA		WIND	BAF		AIR TEN		VIS.	NO.	SP	ECIAL	' ' '						
							COLOR	TRANS. D	R. OI FOR	CF (mb		ORY BULB	BULB	CODE	OBS.	OBSER	VATIONS							
							DT	SD 3	3 50		05	100	07	3 7	31									
		MESSENGR	CAST	CARO				1			T 5	PECIFIC VOLUE	AF :	E A D	1,0	UND		PO ₄ -P	TOTAL-P	NO2-N	NO3~N	SI O4-		s
		TIME 6	NO.	TYPE	OEPTH (m)	, ,	°C	s */.	· SI	GMA-T		ANDMALY-XIG	7 "	УN, М х 10 ³	. VEL	OCITY	O ₂ ml/l	yg - a1/1	yg - 01/1	μg - oi/I	yg = at/l	yg - at		C
											T								-				-	
		10-		ST			360	3335		502		002951	9 (0000		800								
		197	ſ	085 51	0000 D 0010		360	3335		502 502		002954	5 1	0030		008								
				OBS	0010		360	3335		502		002774	,	0000		010								
		0.0		ST			363	3336		501		002959	2 (0059		012								
		002	2	OBS OBS	0020 0025		363	3335		501						012								
				ST			360	3336		502		002955	9 (0089		013								
				OBS	0030		360	3335		502		001100				013								
				STI OBS	0 0050 0054		1697 1643	3372		644 662		001608	4 (1134		781								
				ST	0 0075	0	795	3485	2	718		000909	9 (0166	14	838								
				OBS	0075		795	3484		718						838								
				OBS OBS	0079 0088		765	3479 3483		718						826								
				ST		0	738	3476		719		000900	9	0188		819								
				085	0100		738	3475		719						819								
				OBS ST	0119 D 0125		1588	3456 3466		725		000847	7	0210		+760 +784								
				OBS	0125	0	642	3480	Q 2	736Q					_	. ,								
				ST	D 0150 0150		1722	3493		735		000760	9	0230		823								
				08S	0165		722	3492 3498		735 736						+823 +834								
				085	0191	0	624	3486		744						790								
				ST			1654	3497		747		000647	6 1	0266		+805								
				OBS OBS	0200 0220		1654	3496		747						+805 +810								
				ST			557	3488		753		000598	5	0297		773								
				OBS	0250		557	3487		753		000550	,	2226		+773								
				ST	D 0300 0300		527 527	3490		758 758		000553	/ 1	326		+769 + 7 69								
				ST	D 0400	0	489	3497	2	769		000464	6 1	376		771								
				OBS	0400		1489	3497		769						771								
				STI	D 0500 0500)447)447	3496 3496		773 773		000434	1 (0421		770								
				ST)441	3499		776		000413	2 1	3464		785								
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				ST OBS	0700 0700		438	3501 3500		777		000409	<i>f</i>	0505		+800 +800								
				ST		0	424	3501	2	779		000403	1	0546		811								
				085			424	3500		779		2001.55		a E a .		811								
				082 21)413)413	3501 3500		780		000400	ו כ	0586		+823 +823								
				ST	D 1000		397	3500		781		000398	8	3026		833								
				OBS			397	3499		781		000105				833								
				ST OBS	D 1100 1100		386	3498 3498		781 781		000405	b 1	3066		+845 +845								
				ST	D 1200	C	372	3497	2	782		000402	3 1	0706	14	+855								
				OBS	1200		372	3497		782		000/00	0	77.		855								
				ST OBS	D 1300 1300		370	3497		782		000409	9 1	747		871								
				ST	0 1400	C	367	3498	- 2	784		000410	2 1	788	14	887								
				OBS	1400		367	3497		782		000/12	5	2420		887								
				ST OBS			362	3498		783		000412	0	0629		+902 +902								
				- 03																				

REFERENCE CTRY ID. CODE NO.	SHIP	LATIT			GITUDE GUILLE	MARS	ARE	t	ON TI		YEAR	CRI		ATION		OEPTH TO BOTTOM	OEPTI OF	OBS	WAVE ERVATIONS	- Ł.	WEA- THER COOE	CLOUD		S	NOOC TATION UMBER	
31800	7 EV	442	7.00		1/10 = 5 5210W	10°	48	11			1966	+-	08	UMBER	-	3240	3 W.P.L		HGT PER S	EA		TYPE AM1				
2 1000	4 - 4	1 442	1014	040	2510#	147	WA			INO	_	_	AIR TEM				15		2 2	- 1	X1	0 3	1	1	0101	
							COLOR	TRANS.	OIR.	SPEED	BAR4	ER	ORY	WET	CODE	NO. OBS. OEPTHS	OBSER	VATIONS								
							COOE DT	SD		FORCE SO5	3 1		8018	8ULB												
			_				01	30	34	309	31	. ~	106	078	\perp	29	L			_						-
	MESSENG	CAST NO.	CAR		OEPTH (m)	т	°C	S	٠/	SIGN	1-A	S PE	CIFIC VOLUA	,E 0	Δ D,	SOI VELO	JNO OCITY	O 2 ml/l	PO4-P		A L-P	NO2-N µg - ol/l	NO3-N	\$1 O4-\$1 µg + 01/1	ρН	S
	HR 1/1	0		-		-		-		-		-			103	-			1				µg - 01/1	pg - 6.7.1		#
			S1	тр !	0000	1	330	334	40	25	11	, 0	02861	1 0	000	14	999		1		- 1	i	ı		I	11
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	0.0	12	069	S	0020		331		395	25			.0200				002									
			OB3		0025		331		395	25							003									
			085		0030		317 317	33	40 395	25 25		0	102843	9 0	086		999									
			S1		0050		086	33		25		0	02388	9 0	138		923									
			089		0050		086		455	25							923									
			S1		0075		026	346		26		0	01094	5 0	182		845									
			0B5		0075 0100		820 755	340	545	26		0	00961	٠ ^	207		845									
			089		0100		755		705	27		U	00901	5 0	201		824									
			S1	L D	0125		712	348		27		0	00832	3 0	230	14	813									
			0 B S		0125 0150		712	346	305	27.		0	00759		250		813									
			083		0150		614	34		27		U	100159	<i>y</i> U	250		778									
			089	ŝ	0160	0	563	340	555	27	35						758									
			0.83		0170		608	349		27							781									
			0B5		0190 0200		553 570	348		27:		0	00607	2 0	284		761									
			089		0200		570		375	27			,000071	, ,	-07		770									
			S1		0250		529	348		27		0	00573	2 0	313		761									
			089 089		0264 0280		517 539	348		27							759									
			\$1		0300		521	349		27		0	00513	0	341		767									
			089		0300		521		340	27						14	767									
			S1 089		0400		489 489	349		27		0	1004461	3 0	389		771									
			51		0500		457	351		27		0	00416	7 0	432		771									
			089	5	0500	0	457	349	999	27		Ū		. •			775									
			S1		0600		438	350		27		0	00408	2 0	473		783									
			083 \$1		0600 0700		438 429	349 350		27		0	00401	2 0	514		783 796									
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			S1	10	0800		412	349		27		0	00400	7 0	554	14	806									
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			089		0900		399	34		271		U	100398:	, 0	J 9 4		817									
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			S1 083		1100		386	349		271		U	1004041	3 0	674		845 845									
			\$1	D	1200	0	377	349	98	27	81	0	00406	3 0	715	14	858									
			OBS		1200		377	349		27			2012		7		858									
			S1 089		1300 1300		370 370	349		271		0	004062	2 0	755		871 871									
			S 1		1400		367	349		271		0	00411	5 0	796		887									
			089		1400		367	349		27	82					14	887									
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			005)	1000	0	501	545	700	271	0)					14	904									

No. No.	REFERENCE CTRY ID. CODE NO.	SHIP		LATITU	1	LONGI	TUDE	DRUFT	MARS	ARE		ATION 1		YEAR	CRUIS	E	STATION		DEP		MAX. DEPTH OF		WAVE ERVATIO		WEA- THER COOE	CLOUC		2	NODC TATION	
WATE WATE	-	FV	-	4430	1/10 () N	0483	1/10 160w	-	10°	4.8				1066	+	-				- 3	'MPL'S			SEA	-	TYPE AM				
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229		TIM	E of	NO.	CARD TYPE)	DEPTH (n	נת	Т	°C		s */.	SIC	MA-T	SPECII	MALY-X	102 C	Σ Δ Ο Σ Ν. Α Σ 10 ³	4. V	SOUN	O	O2 m1/l							рН	S C C
229																														
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STD 0300 0488 3485 2759 0005383 0315 14753 STD 0400 0485 35012 2772 0004286 0363 14770 O8S 0400 0485 35012 2772 14770 STO 0500 0447 3498 2774 0004185 0406 14770 O8S 0500 0447 3498 2774 0004185 0406 14770 STO 0600 0433 3499 2776 0004075 0447 14781 O8S 0600 0433 34998 2776 14781 STD 0700 0425 3500 2778 0004032 0488 14795 O8S 0700 0425 34995 2778 14795 STD 0800 0382 34939 2778 14792 O8S 0800 0382 34939 2778 14792 O8S 0800 0399 34988 2779 0004029 0568 14817 O8S 0900 0399 3498 2779 0004029 0568 14817 O8S 0900 0399 34998 2779 STD 1000 0399 34991 2780 0004041 0528 14834 O8S 1100 0392 34999 2781 000403 0649 14834 O8S 1100 0392 34989 2781 000403 069 14837 STD 1000 0381 34989 2781 000403 069 14847 STD 1200 0381 34989 2781 000403 069 14847 O8S 1100 0392 34989 2781 000403 069 14859 O8S 1200 0381 34987 2782 000403 0549 14859 O8S 1200 0381 34987 2782 0004078 0730 14870 O8S 1300 0366 3497 2782 0004078 0730 14870 O8S 1300 0366 34967 2782 0004078 0730 14870 O8S 1300 0366 34967 2782 0004078 0730 14870 O8S 1400 0366 34967 2782 0004078 0730 14870 O8S 1400 0366 34967 2782 14886 O8S 1400 0366 34977 2782 000418 0771 14886 O8S 1400 0366 34979 2782 000418 0771 14886 O8S 1400 0366 34979 2782 000412 0812 14994																														
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					085	5	150	0	C	367		34987	2	783						149	04									

REFERENCE					MARS	DEN	ST A 72	TION TI	445		ORIGIN	ATOR'S	1	DERTA	MAX		WAVE	WEA-	CLOUO	T		ос	
CTBY ID.	CODE	LATITU		NGITUOE	sou	ARE		ION TI		YE AR	RUISE S	TATION		DEPTN TO BOTTOM	OF	0030	WAVE RVATIONS	THER	CODES			TION	
318007	EV	4433	1/10 O	48510W	10°	48		DAY HI		966	08	-		1737	S'MPL		HGT PER SE	x1	TIPE AM			_	
1 2 10001	- v	7777	1014 0	100104	147	WAT			IND	BARO-	AIR TEA		Vie	NO.		ECIAL	1 1	1 \1	1 013	1	1 0	103	
						COLOR	TRANS.	OIR.	SPEED OR FORCE	METER (mbs!	DRY	WET	CODE	OBS. DEPTHS		VATIONS							
						DT	SD	29	510	318	094	072	7	34									
	MESSENGR TIME 0	CAST	CARD	OEPTN Iml	T ,	℃	,	٠/	SIGM	A_T 5	PECIFIC VOLU	ME S	γ <u>Α</u> . μ.		סאנ	O ₂ ml/l	PO 4-P	TOTAL-P	NO2-N	NO3-N	\$1 O ₄ —\$i	рН	5
	TIME 0	NO.	TYPE	001111					210111	~=1	ANDMALT-XII	0, 5	x 10 ³	VELC	CITY		yg - 01/1	ا/to - وبر	ug - at/t	µg - a1/1	νg - at/I	P11	č
			STD	0000	1	140	33	51	255	1	002433	6 0	000	14	935								
	005	i	OBS	0000		140		505	255		002433	•			935								
			STD	0010		131 131		490	255		002431	3 0	024		933								
			STD	0020		051		34	255		002412	7 0	049	14	904								
	002	2	OBS	0020 0025		051 994		335	255						904								
			08S STD	0030		954		27	25 <i>6</i> 257		002311	0 0	072		885 870								
			OBS	0030		954		265	257						870								
			OBS GTS	0040 0050		606 587	33	930	259 261		001879	0 0	114		732								
			OBS	0050	0	587	33	175	261	.5				14	730								
			OBS OBS	0055 0066		620 311		635	264 266						750 620								
			STD	0075	0	304	33	87	270	00	001072	8 0	151	14	625								
			oBs oBs	0075		304		865	270						625 630								
			OBS	0085	0	400	34	37	273						674								
			OBS OBS	0090 0092		585 585		75 78	274						756 757								
			STD	0100		541		72	274		000675	7 0	173		740								
			OBS	0100 0120		541 575		720	274						740								
			OBS STD	0125		571		81	274		000651	2 0	189		758 757								
			OBS	0125		571		805	274					14	757								
			OBS STD	0135 0150		457 461		625	274		000594	9 0	205		710 715								
			OBS	0150	0	461	34	715	275	52				14	715								
			STD	0200 0200		455 455	34 34	81	275		000526	4 0	233		722 722								
			OBS	0230	0	480	34	905	276	54				14	738								
			STD STD	0250 0300		479 472		90	276 276		000487		258 283		741 747								
			OBS	0300	O	472	34	895	276	55				14	747								
			STD 085	0400 0400		435 435		900	276		000454	5 0	330		748 748								
			STD	0500	0	420	34	90	277	71	000447	9 0	375	14	758								
			OBS STD	0500 0600		420 399		900	277		000433	0 0	419		758 766								
			085	0600	0	399		900	277		000433	<i>y</i> 0	717	14	766								
			STD	0700 0700		389 389		91 910	277		000424	5 0	462		778								
			OBS STD	0800		389		910	277		000424	4 0	505		778 792								
			OBS	0800	0	381		910	27	76				14	792								
			STD OBS	0900 0900		377 377		91	277		000428	7 0	547		807 807								
			STD	1000	0	376	34	91	277	76	000436	3 0	590	14	823								
			OBS STD	1000 1100		376 375		910	277		000440	1 0	634	14	823 839								
			OBS	1100	0	375	34	915	277	77				14	839								
			STD OBS	1200 1200		377 377		93	277		000443	8 0	678		857 857								
			STD	1300	0	374	34	95	277	79	000434	0 0	722	14	873								
			OBS STD	1300 1400		374 372		945	277		000440	0 0	766		873 889								
			OBS	1400	0	372	34	945	27		000440	U	100		889								
			STD	1500 1500		370		95	277	79	000445	8 0	810		905								
			085	1500	0	370	34	945	27	19				14	905								

						,	LABL	E I	v .—	-00	11611	ıu	eu										
REFERENCE				MARSDEN	ATZ	TION 1	TAME		OF	RIGINAT	DR'S	Т	DEPTH	MAX.		WAVE		WEA-	CLOUD			NODC	
CIRY ID. COOF	LATITU	IDE LO	MGITUDE TO	SOUARE		IG MT		YEAR	CRUISE	STA	TION	٦.	TO	DEPTH	OBS	ERVAT	SNO	THER	CODES			STATION	
COUR NO.	<u> </u>	1/10	· '1/10 5 Z	10" 1"	1 1	DAY	4R,1/10		NO.	NU	MBER	4	00110M	S'MPL"	DIR.	HGT PE	1 587	A COOL	TYPE AM	-	-+		
318007 EV	4436	ON 0	49060W	149 49				1966		090		<u></u> !	0710	06	00			X1	0 3	-		0104	
					ATER	+-	SPEED	BARO	-	A TEMP		217	NO. 085.		CIAL								
				COL		S. DIR.	OR	METER (mbs)			WET C	ODE	DEPTHS	OSSERV	'ATIONS								
				D	rst	27	507	31	8 09	94	072	7	20										
MESSEN	GR CAST	CARO					<u> </u>	<u> </u>	SPECIFIC	VOLUME	₹ ∆ DYN	0 2	SOL	סאנ		PO	-Р	TOTAL-P	NO2-N	NO3-N	SI 04-	Si	5
TIME HR 1/	or NO.	TYPE	DEPTH (m)	1 ℃	- '	*/	SIGN	-A-T	ANOMA	LY-X107	X	. M.		CITY	O2 ml/l	yg -		μg + σ1/1	yg - 0t/l	µg - a1/1	hð - al		č
1	'	STD	0000	094	9 '3:	338	25	79 '	0022	2123	00	00	14	864		L	·						
0	26	OBS	0000	094	3	3380	25	79						864									
		STD		087		330	25		002	1613	00	22		836									
		085	0010	087		3295			000		0.0			636									
	٥,	STO		073		319	25		0020	0501	00	43		783									
U	01	0BS 0BS	0020 0025	073		3185 3115								769									
		STO		064		307	25		0020	286	0.0	63		748									
		085	0030	064		3065						-		748									
		STO	0050	045		305	26	20	001	8263	01	02		671									
		OBS	0050	045		3045								671									
		OBS	0057	010		3205								523									
		OBS	0064	004		3425	_		001	0.5.9.7.	0.1	2 0		503									
		STO	0075	004		365 3645	27		001	0534	0.1	. 38		505									
		0BS 0BS	0086	013		4055	_							553									
		STO		015		410	27		000	7775	0.1	61		566									
		OBS	0100	015		4100			000					566									
		STO		016	4 3	413	27	32	000	7633	01	. 80	14	575									
		OBS	0125	016		4130								+575									
		STD		017		412	27		000	7760	01	99		+582									
		OBS	0150	017		4120								+582									
		OBS	0165	022		4306 442		42 47	0.20	6323	0.7	234		611 637									
		STC OBS	0200	026		442 4418		47	000	0023	0 2	٠,٧		+637									
		STO		030		453		53	000	5866	04	265		+664									
		STO		033		461		56		5588		294		+687									
		OBS	0300	033		4613		56					14	+687									
		STD	0400	038	4 3	472		60	000	5325	0.3	348		4724									
		OBS	0400	038		472		60						+724									
		STO		040		478		62	000	5246	04	+01		+751									
		OBS	0500	040		4776		62	0.00					4751									
		STE	0600	042		487 4866		67 67	000	4923	04	+52		+777 4777									
		OBS OBS	0550	042		485°		66						+786									
		003	0000	042		, 0)		-					-	,,,,,									

CODE NO. CODE	LATITUDE . 1/10 44390N	LONGITUD - 1	VIO ON I	AARSDEN SOUARE 0° 1° 49 49 49 WAT COLOR CODE	40 t	OIR.	R,1/10	PEAR 966 BARC METE Imbs 31	AIR T R DRY BULB	91 EMP.	C VIST CODULB	08	S'MPL	OBS	WAVE ERVATIONS HGT PER SE	WEA- THER CODE	CLOUD CODES TYPE AM 0 3	1	\$1 N	NODC FATION UMBER	
MESSENGR TIME OF HR 1/10	CAST CA		TH (m)	т °С	S	٠/٠.	SIGM	A-T	SPECIFIC VOI	LUME x10 ²	₹ △ 0 DYN. A x 10 ³	. SO VEL	OUND OCITY	O ₂ ml/l	PO4-P µg - 01/I	101AL-P		NO3-N 1/10 - gu	\$1 O4-Si \square\squar	рН	SCC
040	0 E 0 E 0 E 0 E 0 E 0 E 0 E 0 E 0 E 0 E	35 05TD 003S 05TD 003S 05TD 003S 05TD 003S 05TD 003S 05TD 003S 05TD 003S 05TD 003S 05TD 003S 05TD 003S 05TD 003S 05TD 003S 05TD 003S 00	000 000 010 010 020 020 025 030 030 030 0050	0551 0551 0551 0551 0547 0547 0549 0540 0540 0180 0055 0055	32 32 32 32 32 32 32 32 32 33	95 95 95 95 95 95 965 97 965 97 968 30 95 95	260 260 260 260 260 260 260 260 260 260)2)2)2)2)2)3)5)5)5	00200 00200 00199 00197	18	0001	1400 1400 1400 1400 1400 1400 1400 1400	4704 4704 4705 4705 4705 4705 4705 4705								

CODE NO. CODE	1/10 310 N	LONGITUDE 1/1/10	MARSDEN SQUARE 10' 1' 150 30 WA COLOR CODE DT	ER W	YEAR	AIR TEMP. ER ORY W S) BULB BU	TON ABER	NO.	OF OBS	WAVE ERVATIONS HGT PER SE	WEATHER COOR	COOES	ī	ST N	ATION UMBER 0106
MESSENGR TIME OF HR 1/10	NO. CA		1 "C	s */	SIGMA-T	SPECIFIC VOLUME ANOMALY—X107	≹ Δ D OYN, M. x 10 ³	SOUNO		PO4-P µg - a1/I	101AL-P µg = o1/l	NO2-N ug + at/l	NO3-N	\$1 O4-\$i	рН О
131	08 S 08	TD 0010 IS 0010 ITD 0020	0720 0718 0718 0718	3324 33240 3323 3323 3323 3323	2603 2603 2602 2602 2602 2602 2602	0019891 0019954 0019968	0000	1477 1477 1477	6 6 8						
	08 08 08	1TD 0030 1S 0030 1S 0032 1S 0042 1S 0048 1TD 0050	0605 0605 0530 0380 0370 0337	33230 3305 33050 32980 33055 33245 3322 33220	2602 2603 2603 2606 2628 2644 2646 2646	0019915	0060	1473 1470 1464 1464	2 2 1 1 0 0 6						

318007 EV 4300	E LONGITUOE 18 1/1/10 1/1/10 N 05020 W	150 30 WAT	TRANS, OIR.	YEAR	AIR TEMP. R DRY W BULB BL	°C VIS. CODI	OEPTH OEPTH OF THE NO. OEPTH OF THE NO. OEPTH OBS. OEPTHS OBSERVA		THER CO	ST	NOOC ATION UMBER O 107
MESSENGE CAST TIME OF NO. HR 1/10	CARO DEPTH (m)	T tc	s */	SIGMA-T	SPECIFIC VOLUME ANOMALY-X107	₹ △ 0 0YN, M x 10 ³	. VELOCITY	O ₂ m1/l PO ₄ -P yg - o1/l	107AL-P NO2	SI O4~51 µg - al/I	PH S
148	STD 0000 0BS 0000 STD 0010 0BS 0010 STD 0020 0BS 0020 0BS 0025 STD 0030 0BS 0034 0BS 0042 STD 0050 0BS 0050	0705 0705 0689 0689 0677 0668 0654 0654 0654 0659 0246	3329 33290 3328 33280 3329 33285 33255 33255 33255 33255 33255 3317 33165 33400	2609 2609 2610 2610 2613 2612 2611 2613 2613 2613 2625 2649 2649 2671	0019323 0019206 0018992 0018940	0000 0019 0038 0057	14770 14765 14765 14765 14762 14759 14754 14754 14753 14718				

REFERENCE	SHIP					LE A	AARSOEN	Т	STATIC				4	ORIGIN.	ATOR*	S		DEPTH	MAX. OEPTH		WAVE		WEA	CLOU				000	
CODE NO.	CODE	LATITU	1/10	LONGIT	1/10 '1/10			4.		MTI		YEAR	CRUISE NO.		SMU			MOTT	OF S'MPL"	1	SERVATI		THER	TYPE A				ATION	
	7 EV	4251		0502			50 20	_	40 D/			07.7	-	_		L A	-			DIR.	HGT PE	K JEN						0.1.0.0	
31 800	4 - 1	4231	44	0302	0 W	+		VATE	-			966		09		. 1	1	220	02	<u>. </u>	2	1	X1	0	3		- 1	0108	ı
							COL	_		1	SPEED	- BARC METE)- ├─	ORY	WE	VIS	5	NO.		CIAL									
							cod		(m)	OIR.	OR FORCE	(mbs		nrs Nr.	BUL			EPTHS	ORZEKA	ATIONS									
							D	T	SD	00	500	32	5 0	78	06	7 7	T	15			1								
	MESSENG	CAST	CAR	0		T				. '	T		SPECIFIC	· voili	AA E	≥ △ 0	5	sou	INO		PO		TOTA L-F	NO ₂ -N	NO ₃	_N	S1 O4-Si		5
	HR 1/10	OF NO.	TYP		EPTH I	m)	7 ℃		ς •	/	SIGM	A-T		ALY-XI		DYN. A x 10 ³	м,	VELO		O ₂ ml/	1 PB -		μg - α1/l				NB - 01/1	рН	C C
	FIR 1710	<u>'</u>		-		_									\dashv		-				+-				+	_			$^{\rm H}$
	1	!	۲ .	ם ד	000	0	094	3	334	3	258	34	00	166	0	coo	ا ۱	14	863		- 1	1		1		1			
	15	7	OB:		000	-	094		334		258		001		_	000			863										
					001		080	8	333		259		002	024	4	002	1		813										
			08:	S	001	0	080	8	333	55	259	99							813										
			S.	TD	002	0	059	2	330	6	260)5	001	971	2	004	1	14	725										
	00	0	0B		002		059	2	330	55	260)5						14	725										
			0B		002		045		331		262	26						14	670										
					003		033		331		264		001	635	8	005	9		621										
			OB:		003		033		331		264								621										
			OB:		003		025		333		266								588										
					005		018		334		26		001	321	6	008	9		562										
			OB:	_	005		018		334		26								562										
			OB:		006		014		334		26		000	005/	,	011	7		545										
			OB:		007		014		338		27		000	954	- 4	011	1		553										
			OB:		008		014		338		27								555										
					010		019		342		27		0.00	726	. 3	013	R		587										
			OB:		010		019		342		27		000	, , , ,	, ,	01)			587										
			0B:	_	012		023.		342		27								606										
					012		023		342		27		000	721	6	015	6		607										
			QB:		012		023		342		27								607										
					015		023		342		27		000	705	1	017	4		615										
			OB:		015		023		342		27:								615										
			QB:		017		026		343		27								629										

REFERENCE	SHIP			CVCVVICE PE	MARSOEN	STATION	N TIME		A8 G	ORIGINA			DEPTN	MAX		WAVE ERVATION	v	/EA-	CLOUG			NOOC	
ODE NO.	CODE	LATI	1/10 L	ONGITUDE NO.	1	MO DAY		1			I ATION		BOTTON	0.0	003	HGT PER	1	H ER O O E	TYPE AMI			NOITAT2	
31800	7 EV	424		5020 W		11 11	\rightarrow	1	966	09			1372	1	1	1 3		v 1				0100	
21/000	- I - v	1 72	, A C	1 M 0305	WAT		WIN		_	AIR TEN		\top	NO.	1		112	ı	X 1	0 3	1	1	0109	7
					COLOR	TRANS. D	1 5		BARO- METER	ORY	WET	VIS.	OBS.	OBCCDI	CIAL								
					COOE	(m)	F	ORCE	(mbs)	8ULB	BULS		DEPTHS	<u></u>									
					DT	50]	5 5	04	322	128	10	5 7	27										
	MESSEN	GR CAS	CARO	DEPTH (m)	7 °C	s °/.		SIGMA		PECIFIC VOLUE	AE ;	£ ∆ 0 37N. M	20	מאט	O2 mt/l	PO4-P	TOTA	L-P	NO2-N	NO3-N	St O4-	si	s
	HR 1/	NO.	TYPE	DEPIN (m)	, ,	3 '	.	SIGMA	-'	ANOMALY-X16	' '	X 10 ³	, AEI	OCITY	Q2 mi/1	yg = a1/1	۰ و ۷		µg - a1/1	µg - al/l	yg = 01.		c
																1							\dashv
	'	,	ST	0000	1178	3305	,	2514	4	002835	5 '	0000	14	4943		1		. '	'		'		, .
	1	63	085	0000	1178	3309		2514	4				14	+943									
			STO		1154	3302		251		002817	8	0028		4935									
			085	0010	1154	3302		251				- 0		+935									
	0	0.3	STO		1012	3304		254		002567	3 1	0055		+886									
	U	02	08s 08s	0020 0025	1012 0890	3304 3312		2542 2568						+886 +843									
			ST		0839	3334		259		002086	7	00 78		4827									
			085	0030	0839	3333		259		-0-000				4827									
			STE		0556	3366		265		001483	7	0114		+723									
			OBS	0050	0556	3365		265						+723									
			OBS	0063	0414	3376	55	268					14	4668									
			STO		0530	3427		2708	3	001000	3	0145	14	+725									
			obs	0075	0530	3426		270						4725									
			085	0087	0376	3408		271		000603	,			+660									
			5T0 085	0100	039 7 0397	3450		274		000687	Ь	0166		+677									
			085	0107	0358	3455		274						+677 +662									
			STE		0430	3471		275		000562	8	0182		4698									
			085	0125	0430	3471		275			_			4698									
			OBS	0130	0450	3475		275						4708									
			STO	0150	0457	3475	5	275	5	000564	4	0196		4714									
			085	0150	0457	3475		275						4714									
			OBS	0180	0466	3482		2761						4723									
			STE		0436	3484		276		000479	6	0222		4714									
			0B5 ST0	0200	0436 0434	3484		276		000482	_	021.0		4714 4722									
			STO		0434	3484		276		000486		0246 0270		4730									
			QB5	0300	0433	3484		276		000700		,,,,		4730									
			STE		0434	3485		276		000494	4	0319		4747									
			OBS	0400	0434	3484	+5	276	5				14	4747									
			STO		0438	3488		276		000487	0	0369		4765									
			OBS	0500	0438	3487	-	276						+765									
			STO		0429	3488		2761		000483	1	0417		+778									
			085	0600	0429	3488		2761		0000.10		04.6		+778									
			5T[085	0700	0417 0417	3492		277		000449	4	0464		4790									
			510		0417	3491		277		000457	6	0509		4790 4804									
			OBS	0800	0410	349		277		000471	0	0000		4804									
			STO		0404	349		277		000458	4	0555		4818									
			085	0900	0404	349		277						4818									
			STO	1000	0402	3492		277		000461	7	0601		4834									
			085	1000	0402	349		277					1	4834									
			STI		0400	3492		277		000467	7	0647		4850									
			085	1100	0400	349		277				- /		4850									
			STI		0388	3494		277		000450	Ţ	0693		4862									
			085	1200	0388	3493		277		000/0=	_	0.70		4862									
			STO OBS	1300 1300	0375 0375	3494		277		000437	כ	0738		4873									
			003	1300	0313	2476	- 2	211	7				7,	4873									

TABLE IV .- Continued

REFER		SHIP	LATITU	DF.	LONG	SITUDE SOUTH	MAR	OEH ARE	STATION TO		ME	YEAR		ORIGINA		\Box	DEPTH	UCFI		WAV	TONS	WEA-	CLOUD			NODC	
CODE	NO.	CODE	*	1/10		ITUDE STUDE	10*	114			R.1/10	1EAR	CRU		ATION UMBER		вотто	S'MPL			PER SEA	2000	TYPE AMI			NUMBER	
31	8007	ΕV	4230	N	050		150	20	11	11	179	1966	,	096	5		2176	5 1	5 15	2	3	X1	0 3			0110	
								WA		٧	VIND	BARG	o <u>-</u> -	AIR TEM		vis	NO.	SP	ECIAL]							
								COLOR	TRANS.	DIR.	SPEEO OR FORCE	METE		ORY BULB	WET	CODE	OBS. DEPTH	CHEEN	VATIONS	5							
								DT	SD	15	503		22	133	106	7	29			1							
		MESSENGR	CAST	CAR	0		Γ.	*c	Ϊ.	.,			SPEC	CIFIC VOLUA	AE Z	Δ O.	sc	UND	01	, PC	04-P	TOTAL-P	NO2-N	NO3~N	\$104-	Sı	S
		TIME HR 1/10	약 NO.	TYPE		OEPTH (m)	'	C	2	*/**	\$1G	T-AN	AN	OMALY-X10	ים י	10 ³	. \ \x	LOCITY	O ₂ ml		- a1/l	pg = ot/t	yg - at/l	µg + a1/1	yg = 01		C
			_	51		0000		199	33			11	0	02865	4 0	000		4950									
		17	9	085 S1		0000		199	33	060 მ6		11	0	02857	0 0	029		4950 4949									
				OBS		0010		193	3 3	060		12	Ŭ	02037				4949									
					10	0023		090	33			31	0	02677	1 0	056		4915									
		00	2	085 085		0020 0025		090		065 195		31						4915 4914									
					TD	0030		990	3 3			59	0	02412	0 0	J 8 2		4882									
				085		0030		1990		205		59						4882									
				089	T 0	0050 0050		640	33	36 355		23	0	01808	3 0	124		4753 4753									
				\$1	_	0075		1498	33			90	0	01174	1 0	161		4708									
				083	S	0075		1498		985		90					1	4708									
				083		0085		1484		110		01	_	00000	, ,	100		4706									
				S1 083		0100		1539	34	ງງ 550		29	U	00800	5 U	186		4737 4737									
				089		0119		589		660		32						4761									
				51		0125		535	34			30	0	00798	9 0	206		4739									
				085 085		0125 0128		535		550 605		30						4739 4741									
				OBS		0130		1562		600		31						4752									
				083	S	0140	C	445	34	480	27	135					1	4703									
					TD	0150		1479		69		747	0	00637	2 0	224		4722									
				0B5	5 TD	0150 0200)4 7 9)446	34	685 76		747 756	0	00554	0 0	254		4722									
				085		0200)446		755		756					1	4717									
					TO	0250		1456		85		763		00499		280		4731									
				08:	TD S	0300)462)462		92 919		768 768	U	00460	0 0	304		4743									
					TD	0400)465		97		771	0	00439	5 0	349		4761									
				OB:		0400)465		966	_	771			_			4761									
				S1 08:	TD	0500 0500)438)438		96 958		773 773	0	000425	2 0	392		4766									
					5 TD	0600)453		01		776	0	00416	2 0	434		4790									
				0B	S	0600	()453	35	008	2	776					1	4790									
				08	TD	0700 0 7 00)440)440		01		777 777	0	00409	1 (479		4801									
					S TD	0800		0415		99		778	0	00406	5 0	>16		4807									
				08	S	0800		0415		988		778						4807									
					TD	0900		390		97 966		779 779	0	00402	6 0	557		4813									
				08:	S TD	0900 1000		376		95		779	0	00405	3 0	597		4823									
				0В.		1000		376		952		779	Ī					4823									
					TD	1100		374		95		780	0	000410	1 (1638		4839									
				0B.	S TD	1100 1200		0374 0368		954 96		780 780	0	00410	7 0	679		4839									
				08		1200		368		955		780					1	4853									
				S	TO	1300		363		96		781	0	000412	2 (720		4868									
				08	S TD	1300 1400		0363 0362		956 96		781 782	0	000415	6 (76:		4868									
				0B		1400		0362		96]		782		,50713	5 (1	4885	i								
				S	TD	1500		1 6 6 0		96		782	0	000420	3 (80:		4901									
				0В	S	1500	(0361	34	964	2	782					1	4901									

																-											7
EFER	ENCE IO,	SHIP	LATITUI	DE LO	NGITUOE E	MA SO	RSOEN	STATI	ON TIA		'EAR	CRU		STAT			EPTH TO	MAX. OEPTH OF	085	WAVE ERVATIONS	WE	ER	CLOUD			NODC	
DE	NO.	CODE	•	1/10	1/10	10		MO D				NO	o.	NUM	BER	80	MOTT	Z,Wbr.	5 DIR.	HGT PER SI	A CO	OE T	TYPE AMT			NUMBER	-
31	8007	EV	4150	N 05	020 W	15	0 10 WAT			08 1	966	_	AIR T	97	°		000	15	00	0	0	1	0 3		l	011	1
							COLOR	TRANS.	OIR.	SPEED OR	MET	ER	ORY	w	ET C	115.	NO, O65, EPTHS	SPE	CIAL								
							DT	SD	11	SU5	3 4		560		40	-	40										
							01	30	11	307	1 24	_		_	_					T		Τ.					-
		MESSENGR TIME MR 1/10	CAST NO.	TYPE	OEPTH (m)		1 ℃	S	·/	SIGM	AT	AN	OMALY-	X107	₹ ∆ 0YN. x 1	M.	AETC 20f	CITY	O ₂ m1/l	PO4-P ug = 01/1	10TAL- 10 - وبر	-Р N И	NO2-N 1g - o1/1	NO3-N NO - al/l	SI O4-S		c
		7710																									\dashv
		20	, ,	STD	0000	•	1206	328		249		01	0302	90	00	00		950									
		20.	5	OBS STD	0000		1206	321		249	-	01	0301	01	00	30		950									
				OBS	0010		1190	328		249								946									
		00	2	OBS STD	0015		1190	328		249		0.	0290	0.2	00	60		947									
				OBS	0020		1130	328		250			02,0	0 =	00	00		926									
				obs	0025		1070	329		252		0	0367	2.7	0.0	0.7		907									
				STD OBS	0030		0920	329		255		01	0247	21	00	0 1		853									
				STD	0050		0584	334		263		0	0171	09	01	28		731									
				08s 08s	0050		0584	334		264								731									
				OBS	0067		0558	34		270								734									
				OBS	0072		0529	34		269					0.1			723									
				STD	0075		0592	344		271		U	0093	12	01	61		753									
				OBS	0085		0804	348	355	271	7						14	843									
				STO	0100		0731	34		271		0	0092	47	01	85		815									
				OBS STD	0125		0635	346		272		0	0087	98	02	07		780									
				OBS	0125		0635	346		272								780									
				OBS OBS	0131		0573	345	665	272								755									
				OBS	0148		0547	346	00	273	3 2						14	748									
				STD OBS	0150		0587 0587	34		273		01	0074	87	02	28		766									
				OBS	0160		0659	34		273								798									
				OBS	0172		0549	34		274		_	00.5		~ /			754									
				STD OBS	0200		0637	34	93 925	274		0	0065	10	02	63		797 797									
				085	0201		0655		000	275								806									
				OBS OBS	0210		0591		900	275								780									
				STD	0250		0599	34		275		0	0058	31	04	94		791									
				085	0255		0598		950	275								791									
				OBS STD	0270		0613	34	975 96	275		0	0056	04	03	22		800 787									
				OBS	0300		0569	34	955	275	8 6						14	787									
				STD	0400		0534	34	96 958	276		0	0052	79	0.3	77		789									
				STO	0500		0486	34		276		0	0048	60	04	27	14	786									
				OBS OBS	0500 0540		0486 0509		952	276								786									
				510	0600		0478	34	-	277		0	0046	55	04	75		803									
				085	0600		0478		982	277							14	800									
				STD	0700 0700		0457	34	98 983	277		0	0045	03	05	21		808									
				STO	0800		0454	34	99	27	74	0	0045	15	05	66	14	823									
				OBS	0800 0900		0454	34	991	277		0	00/-/-	27	0.6	1 1		823									
				STD OBS	0900		0433		981	277		U	0044	34	06	11		831									
				STD	1000		0422	34		277		0	0044	.42	06	55		843									
				OBS STD	1000		0422	34	975 97	277		0	0044	75	07	00		843									
				obs	1100		0411	34	965	277	7.7						14	855									
				STD OBS	1200 1200		0392	34	95 947	271		0	0044	63	07	44		863									
				STO	1300		0388	34		27		0	0044	87	07	89		879									
				OBS	1300		0388	34	949	27	78		001	0.	0.13	2.		879									
				STD OBS	1400		0381	34	95 949	27		0	0044	85	08	54		892									
				STO	1500		0376	34	95	27	79	0	0045	07	08	79	14	907									
				OBS	1500		0376	34	949	27	79						14	907									

	The state of the s																							
REFERENC		SHIP LATITUDE LONGITUDE				MARS	MARSOEN		STATION TIN		YEAR 7		NATOR'		D	DEPTH DEPTH	OBS	WAVE ERVATIONS	WE	A- CLOU			NOD	C
TRY IC	0.	CODE	•	1/10	GITUDE HE	10°			AY H			NO,	STATIC	ER	80	OF S'MPL		HGT PER SE					NUMB	ER
3180	107	ΕV	4120	N 05	020 W	150					966		98		3	658 15	00	0	×	1 0	3		01	12
							COLOR	ER TRANS.	OIR.	SPEED	BARO- METER	ORY	MP. °C	T COD	: a	OB2. OBCEB	ECIAL VATIONS							
						-	CODE	(m)		FORCE	(mbs)	BULB	BUL	.В	- 01	crins								
	ſ	445555475					DT	50	11	505	340		17	_		42		T		T				-
	ľ	MESSENGA TIME HR 1/10	T NO.	CARO TYPE	OEPTH (m)	T	*C	\$	٠/	SIG M	A-T	SPECIFIC VOL		₹ △ (OYN. / x 10 ³	м.	VEFOCITA	O 2 ml/l	PO4-P ug = a1/1	FOTAL- ug - at.			N SIO4-		PH C
	1	.14 1/10									+													
		23	1	STD	0000		196 196	328		249		00301	12	000	0	14946 14946								
		23	1	STD	0010		174	328		249		00299	66	003	0	14940								
				OBS	0010		174	328		249		00205		0111	^	14940								
		00	2	STD OBS	0020		158 158	328		250		00295	60	006	0	14936								
				085	0025		141	328		250	3					14931								
				ST0 085	0030		127 127	328	33 325	250 250		00291	93	008	9	14927								
				OBS	0041		084		360	251						14914								
				OBS	0042 0050		095 773	328		251 259		00.203	2 4	013	0	14918								
				OBS	0050		773		220	259		00208	20	019	7	14804								
				OBS	0052		733		355	261						14790								
				OBS OBS	0057 0059		723 600		355	261						14787								
				STD	0075	0	504	336	54	266	51	00144	30	018	3	14706								
				OBS OBS	0075 0086		504 433		535 805	268						14706 14680								
				510	0100		442	340		270		00105	29	021	4	14690								
				085	0100		442)70	270						14690								
				OBS OBS	0104 0107		458 388		255 310	271						14700								
				OBS	0118	0	421	34	345	272	2 7					14688								
				STD OBS	0125 0125		380 380	34.	29 285	272		00083	09	023	8	14671								
				OBS	0127		380		470	274						14674								
				OBS	0134		434		565	274						14699								
				OBS STD	0146 0150		509	34	570 72	274		00064	86	045	7	14722								
				OBS	0150		509		715	274						14735								
				OBS OBS	0153 0160		520 498		700 575	274						14740								
				OBS	0170	0	531	34	780	274	49					14748								
				OBS STD	0178 0200		620 530	341	970	275		00057	0.8	028	17	14788 14753								
				OBS	0200		530		860	275		00007	0.0	020	1	14753								
				OBS	0230		519		870	27!						14754								
				OBS STD	0246 0250		539 537	341	875 88	27!		00057	06	031	6	14765								
				STD	0300	0	510	34	89	27	59	00054		034		14762								
				OBS STD	0300		510 475	34	885	275		00046	9.8	039) 4	14762 14769								
				OBS	0400		475		941	276		00040	70	029	7	14765								
				STO	0500		453	34		27		00044	40	044	0	14773								
				OBS STD	0500 0600		453 452	35	956	27		00042	24	048	3	14773								
				OBS	0600	0	452	34	998	27	75					14789								
				STO OBS	0700 0700		446 446	350	01	27		00041	41	052	5	14804								
				STD	0800	0	426	35	01	27	78	00040	63	056	6	14812								
				OBS STD	0800 0900		426 408	35	006	27		00040	4.1	000	16	14812 14821								
				OBS	0900		408		993	27		00040	41			14821								
				STD	1000	0	402	35	00	278	B 0	00040	26	064	7	14835								
				OBS STD	1000 1100		402 381	34	998 98	271		00040	17	068	3 7	14835 14842								
				OBS	1100	0	381	34	977	27	81					14842								
				STO	1200 1200		385 385	34	99 994	278		00040	30	072	7	14861								
				OBS STD	1300		381	35		27		00040	61	076	7	14876								
				OBS	1300	0	381	34	995	27	82			0.90		14876								
				STO OBS	1400 1400		381 381	35	005	271		00040	15	080	10	14893 14893								
				STD	1500	0	378	35	01	27	84	00041	15	084	9	14909								
				OBS	1500	0	378	35	006	27	84					14909								

REFERENCE CTRY ID.	SHIP LATITUDE LONGITUDE				MARS	DEN	STATION TIA		YEAR		TATION	\exists	OEPTH TD BOTTOM	MAX. DEPTH DF		WAVE ERVATIONS	WEA- THER CDDE	CLDUD			NODC STATION NUMBER	
3 1 8 0 0 7		4120	1/10 N 0.5	1/10 = 5020 W	150		11 12 0		1966		UMBER	\rightarrow	3840	S'MPL'S	DIR.	HGT PER SE	XO	O 3			0113	
1 - 4	1 1 1				[WAT	ER W	ND	BARO	AIR TEA	AP. °C	vis.	NO.	SPEC		01 1	1 ^0	1 013	1	1	0113	
						COLDR	TRANS. DIR.	SPEED OR FORCE	(mbs		WET SULS	CODE	OBS. DEPTHS	OBSERVA								
					oxdot	DT	50 00	500	34	0 133	122	7	34									
	MESSENGR TIME O HR 1/10	CAST HO,	CARD TYPE	DEPTH (m)	Т	°C	s */	SIGM	A-T	SPECIFIC VOLU	ME Z DY	△ D N. M. 10 ³	VELC.	CITY	D 2 ml/l	PO ₄ -P µg = a1/1	TOTA L-P yg = a1/1	NO2-N yg - o1/1	NO3-N yg - 01/I	SI O4S ug - at/		S C C
		.	STO	0000	1	817	3505	252	29	002693	 9 0:	000	15	170		1 1					1	
	030		OBS STD	0000 001J		817 817	35050 3505	252 252		002697	2 0			170								
			OBS	0010		817	35050	252		002697	2 01	027		172 172								
	002		STD OBS	0020		817 817	3505 35050	252 252		002700	6 0	054		174 174								
	002		OBS	0025	1	818	35050	252	2.8				15	175								
			STD OBS	0030		818	3505 35045	252		002709	9 01	081		176 176								
			STD	0050	1	869	3536	253	39	002613	4 0	134	15	197								
			OBS STD	0050 0075		869 523	35355 3540	253		001804	1 0	189		197 098								
			OBS	0075	1	523	35400	262	25				15	098								
			STD OBS	0100 0100		495 495	3584 35835	266		001435	1 0.	230		099 099								
			STD	0125		341 341	3555	267	75	001339	9 0	265		050								
			OBS STD	0125 0150		263	35545 3554	269		001202	7 0	296		050 027								
			OBS	0150		263	35535	269						027								
			OBS STD	0188 0200		119 132	35285 3540	269		001075	7 0	353		981 989								
			OBS OBS	0200		132	35395 35295	270						989								
			STD	0232 0250	_	022	3528	271		000977	0 0	405		960 956								
			OBS STD	0281 0300		991 906	35265 3518	271		000877	0 0	451		950 921								
			OBS	0300	0	906	35175	272	26	000077	0 0	771	14	921								
			OBS OBS	0345 0377		839 690	35150 34955	273						903 848								
			STD	0400	0	698	3505	274	48	000675	7 0	29	14	856								
			OBS OBS	0400 0460		698 628	35050 35020	274						856 838								
			OBS	0479	0	537	34854	275	54				14	802								
			STD OBS	0500 0500		526 526	3495 34945	276		000540	1 0	589		802 802								
			OBS	0550	0	468	34880	276	54				14	786								
			OBS OBS	0560 0565		494 468	34908 34927	276						799 789								
			STD OBS	0600 0600	0	458 458	3493 34928	276	59	000481	5 0	641	14	791								
			STD	0700	0	420	3492	276	72	000453	7 0	687	14	791 791								
			OBS STD	0700 0800		420 421	34919 3496	277		000432	1 0	732		791 809								
			OBS	0800	0	421	34963	277	76				14	809								
			STD OBS	0900 0900		423 423	3498 34982	277		000430	4 0	775		827 827								
			STD	1000	0	401	3497	277	78	000420	6 0	B 1 7	14	834								
			OBS STD	1000 1100		401 397	34972 3498	277		000422	0 0	859		834 849								
			OBS	1100	0	397	34976	277	79				14	849								
			STO OBS	1200 1200		398 398	3499 34990	278		000422	2 0	902		866 866								
			STD OBS	1300 1300		390 390	3499 34990	278	31	000421	1 0	944	14	880								
			STD	1400	0	388	3500	278	82	000422	3 0	986	14	880 896								
			OBS STD	1400 1500		388 380	34997 3500	278		000419	3 1:	028		896 909								
			OBS	1500		380	34999	278		000119		- 2 0		909								

ID.	SHIP	LATITU	DE LO	NGITUDE LES	MAS SQ1	RSOEN UARE	STATION (GM)	T)	YEAR	CRI	ORIGIN UISE S	ATOR	ON	DEPTH TO BOTTOM	DEPTH OF S'MPL	OBS	WAVE ERVATION		WEA- THER COOE	CLOUD COOES			NODC STATION NUMBER	i R
8007	Εv	4050	\rightarrow	5020 W	150		11 12	060			10			4407	15		2 4		X 1	0 3			011	4
						WAT		WIND	BAI	10-	AIR TE			NO.		ECIAL								
						COLOR	IIO 2MAST	G (RCE IME	TER os)	DRY BULB	W1 BU	LB COOL	OBS. DEPTHS	OBSER	ZHOITAV								
						DT	SD 1.	2 5	14 3	35	194	1	33 7	34										
	MESSENGR TIME	CAST	CARD	OEPTH (m)	Τ.	T 10	s */		IGMA-T		CIFIC VOLU		₹ A D		UND	O2 ml/1	PO4-1		OTAL-P	NO2-N	NO3~N	5104-	-Si p+	
į	HR 1/10	NO.	TYPE	Ott in mil			3 7	2	IGMA=1	At	TI-YJAMOP	07	₹ △ D OYN. M x 10 ³	. VELO	OCITY	0.5 ш151	pg - at/	'l µ	/g + a1/l	υg = σt/l	yg = at/1			
	060	`	STD	0000		1869	3536		2539	0	02592	5	0000		189									
	000	,	STD	0010		1869 1889	3536 3542		2539 2538	0	02604	3	0026		189									
			085	0010	:	1889	3541	5 3	2538			-	0020		197									
			STD	0020		1911	3556		2544	0	02559	8	0052		206									
	002	2	085 085	0020 0025		1911 1913	35555 3562		2544 2548						206									
			510	0029		1913	3564		2549	0	02512	6	0077		210									
			OBS	0030		1914	3563		2549	·	02322				210									
			OBS	0048		1940	3580		2555				. 1. 5		222									
			STD	0050 0050		1922 1922	3592 3592		2569 2569	0	02332	8	0126		219									
			085	0061		1695	3579		2615						154									
			OBS	0065		1737	3630	0	2644					15	173									
			STD	0075		1727	3637		2652	0	01550	2	0174		172									
			OBS STD	0075 0100		1727 1620	3637		2652 2663	0	01450	7	0212		172									
			085	0100		1620	3618		2663		701430		01.12		5142									
			SID	0125		1564	3614		2672	0	01372	1	0247		128									
			OBS	0125		1564	3613		2672						128									
			STD	0150 0150		1479 1479	3596 3596		2678 2678	0	01325	4	0281		104									
			SID	0200		1380	3582		2688	0	01241	7	0349		5078									
			085	0200		1380	3581		2688	·	.016.1	•	024.		5078									
			STD	0250		1316	3575		2696		01175		0405		064									
			STO	0300		1198	3559		2707	C	01078	7	0462		031									
			085 085	0300		1198 1168	3559 3554		2707 2709						5021									
			085	0320		1179	3558		2710						5027									
			STD	0400		0961	3530		2727	C	000899	0	056		4959									
			OBS	0400		0961	3529 3515		2727	_	007/0		0645		+959 +908									
			STD OBS	0500 0500		0787 0787	3515		2743 2743	(00748	0	0643		4908									
			STD	0600		0672	3515		2760	C	00595	2	0710		4880									
			OBS	0600		0672	3515		2760						4880									
			OBS	0611		0671	3516		2761						+882									
			085 085	0633 0677		0629 0612	3511 3514		2763 2767						4868 4869									
			STD	0700		0567	3510		2770	C	00500	7	0765		+854									
			085	0700	(0567	3510	4	2770					14	4854									
			STD	0800		0527	3509		2773	C	00474	0	0814		4854									
			08s 08s	0800 0840		0527 0510	3508 3508		2773 2775						4854 4854									
			085	0871		0533	3515		2778						+870									
			STD	0900	1	0510	3512		2778	C	00435	8	0859	9 14	4865									
			OBS	0900		0510	3512		2778						4865									
			STD	1000 1000		0463	3509 3509		2781 2781	C	00409	7	0901		4861 4861									
			OBS STD	1100		0463	3503		2781	C	00416	8	0943		+862									
			085	1100		0427	3503		2781					14	4862									
			STD	1200		0410	3502		2781	C	00415	3	0984		4872									
			OBS	1200		0410	3502		2781				105		4872									
			STD	1300		0400	3501 3501		2782 2782	(000417	7	1026		4884 4884									
			OBS STD	1300 1400		0388	3500		2782	(000417	79	1068		4896									
			OBS	1400		0388	3500	3	2782					14	4896									
			STD	1500		0380	3500		2783	(000418	35	111		4909									
			OBS	1500		0380	3500	0	2783					14	4909									

REFER		SHIP				===	MARS	OEN	STAT	ION TI	WE	YEAR	ORIGIN			J	OEPTH	MAX		WAVE ERVATIONS	WEA- THER	CLOUG		и	ODC	
CTRY	10. NO.	COOE	LATITU	1/10	LONG	GITUOF 5	10°		MO C		R.1/10	TEAR	NO.	STATI NUM	ON BER	8	MOTTO	OF S'MPL	0000	HGT PER SE		TYPE AM		ST/	M8ER	
31	8007	ĒV	4029	N	050	020 W	150	00				1966	10			4	4023	15	13	2 2	X1	0 3			115	
								WA1	_		SPEED	BARO-		MP.		VIS.	NO. OBS.	SPI	ECIAL							
							ļ	COOE	TRANS.	DIR.	OR FDRCE	(mbs)	BULB	€U	LB	ODE	DEPTHS	OBSER	VATIONS							
			,					DT	SD	15	511	340	183	1	_	7	33									
		MESSENGR TIME HR 1/10	CAST NO.	CAR TYPI		OEPTH (m)	Т	℃	2	٠/	SIGN	AA-T	SPECIFIC VOLU	10 ⁷	ĕ ∆ oyn x 1	, M.	VELO		O2 ml/l	PO4-P yg = 01/I	TOTA L-P ug = 01/1	NO2-N µg - 01/I	NO3-N vg - at/1	\$1 O4-\$1 1/10 - gu	ρН	S C C
					TD	0000		937	35		25		002689))	00	00	15.	209								П
		099	5	083	S TD	0000		937 939	35	455 46	25 25		002697	7 5,	00	27		209								
				083	S	0010	1	939	35	455	25	29					15.	211								
		002	2	OB3	TD S	0020 0020		939 939	35	46 455	25 25		002701	. 0	00	54		213								
				OBS	S	0025	1	939	35	450	25	28					15.	214								
				083	T D S	0030 0030		939 939	354	45 450	25 25		002708	3 2	0.0	81		215								
				S 1	1D	0050	1	939	35	45	25		002715	52	01	35		218								
				089 089		0050 0061		939 944		450 450	25. 25.							218								
				51		0075		820	35		25		002250	8	01	97		221 191								
				OBS		0075		628		705	25						15	191								
				S1 089		0100		532 532	350	670	26		001634	O	02	46		109								
				089	S	0118	1	474	35	735	26	61					150	094								
				S1 QB5		0125 0125		530 530	359	95 950	26		001433	4	02	84		115								
				OBS	5	0140	1	557	36	105	26	71						128								
				S1 083		0150 ე150		539 539	361)6)60	26		001380	4	03	19	15									
				OBS		0166		390		710	26							124								
				OBS		0179		436		905	26						15(94								
				S1 085		0200 0200		410 410	358	37 370	261		001262	6	03	85	150	089 089								
				ST	T D	0250	1.	236	355	56	26		001159	4	04	46	150									
				\$1 089		0300		146 146	354	+5 +50	270		001085	2	051	02	150									
				089		0325		133	35		27						15(15(
				ST 089		0400		391	351		277		000908	4	001	02	149	931								
				OBS		0400 0484		891 599	351		27:						149	931 369								
				OBS		0494		719	350		274	44					148	380								
				089		0500 0500		599 599	350	002	274		000728	6	06	84	148									
				ST	T D	0600	0	549	349	97	276	51	000564	0	07	48	148									
				085 085		0600 0689		549 499	349		276						148									
				ST	rD	0700	0	559	351		276		000479	0	081	00	148									
				OB S		0700		559	351		27						148									
				OBS		0800		541 541	351 351		27		000458	5	084	47	148									
				ST	ſΟ	0900	0	475	350)5	27	76	000446	5	089	93	148	349								
				0 B S		0900 1000		475 441	350		27		000423	7	09:	3.6	148									
				085	5	1000	0	441	350	35	27		000723	1	07.	0	146									
				ST OBS		1100		+26	350		278		000412	6	09	78	148	362								
				ST		1100 1200		426 409	350		278		000410	3	10	19	148									
				OBS	5	1200	04	409	350	25	278	3 2					148	372								
				ST OBS		1300 1300		399 399	350		278		000419	4	IU	60	148									
				ST	D	1400	0 :	391	350) 1	278		000417	4	110	02	148									
				OBS ST		1400 1500		391 380	350		278		00011	,			148	397								
				085		1500		380	350 350		278		000413	4	114	44	149									

Charles Char	EFER	ENCE	tune				- E	MARSDEN	STATION TO			DRIGINA			DEPTH	MAX. DEPTH		WAVE	WEA	Crond			NDDC	
1	TRY	ID. ND.	CODE	LATITUE		'1/10	N D	SQUARE 10° 1°	MD DAY HE	YEAR					TO NOTTOR	, DF	0000		THER CODE	TYPE AMT		N	UMBER	
	318	3007	EV	3950		020 W		114 90	11 12 1	28 196	6	102	2		5486	15	13	2 2	X0	0 3			0116	
Care Section Care Section Care Section Care Section Care Ca	,	,	'				,		rer w	AS -	(O-			Jus.	NO.	SPE	CIAL							
STO SO SO SO SO SO SO SO								COLOR		DR (m)			W ET BULB	CODE	DEPTHS	DBSERV	ATIONS							
128								DT	SD 15		28	189	150	7	44									
128		[MESSENGR	CAST	CARD	D.COTIL A	. 1	1.5	/		SPECIF	IC VOLUN	AE 3	ξ Δ D	SD	UND	0 - =1/1	PO4-P	TOTAL-P	NO2-N	ND3-N	SI D4-Si		S
128 085 0000 1752 3421 2481 0031478 0031 15142 002 085 0010 1749 3421 2481 0031478 0031 15142 003 010 1749 3421 2481 0031478 0031 15144 005 0110 1749 3421 2481 0031478 005 15156 005 010 1778 3448 2495 005 15156 005 0020 1778 3448 2495 005 15156 005 0020 1788 34480 2493 0028899 0092 15166 005 0020 1863 34800 2493 0028899 0092 15166 005 0020 1863 34800 2493 005 0030 1852 34820 2599 007 008 0044 1848 3510 2509 008 0099 1751 3466 2530 002894 0148 15157 008 0099 1751 3466 2530 002894 0148 15157 008 0099 1751 3466 2530 002894 0148 15157 008 0099 1751 3466 2530 002894 0148 15157 008 0099 1751 3466 2530 002894 0148 15157 008 0099 1751 3466 2640 0014475 0202 15166 008 0099 1751 3466 2650 008 0099 1751 3466 2650 008 0099 1751 3466 2660 0014475 0202 15066 008 0099 1751 3466 2660 0014475 0202 15066 008 0099 1751 3466 2660 0014363 0441 15051 008 0099 1751 3466 2660 0014363 0441 15051 008 0150 1220 3545 2660 008 0150 1220 3545 2660 008 0150 1220 3545 2660 008 0150 1220 3545 2660 008 0150 1220 3545 2660 008 0150 1220 3545 2660 008 0150 1265 3546 2660 008 0150 1650 1650 008 0150 1650 1650 008 0150 1650 1650 008 0150 1650 1650 008 0150 1650 1650 008 0150 1650 1650 008 0150			HR 1/10	Y NO.	TYPE	Derin	11)	' "	3 7,0	310 m A == 1	AND	MALY-X10	<u>'</u>	X 103	VEL	OCITY	02 11171	μg - α1/1	µg - a1/1	µg - 01/1	yg + o1/1	µg + a1/l	, pri	C
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STD 1000 0420 3501 2780 0004137 0840 14643 085 1300 0420 35013 2780 14843 14843 STD 1100 0399 3500 2781 00J4068 081 14850 OBS 1100 0399 3500 2781 14850 STD 1200 0392 3500 2782 0004073 0922 14864 OBS 1200 0392 3500 2782 0004073 0922 14864 STD 1300 0382 3500 2782 14864 STD 1300 0382 3500 2782 14864 STD 1300 0382 3500 2782 0004059 0962 14877 OBS 1300 0382 34997 2782 14867 STD 1400 0373 3499 2783 0004082 1003 14890 OBS 1400 0373 3499 2783 0004072 1044 14907											0.5	0422	_	0,36										
STD 1100 0399 3500 2781 004068 0081 14850 OBS 1100 0399 35000 2781 14850 STO 1200 0392 35000 2782 0004073 0922 14864 OBS 1200 0392 35000 2782 14864 STD 1300 0382 3500 2782 0004059 0962 14877 OBS 1300 0382 34997 2782 14877 STD 1400 0373 34999 2783 0004082 1003 14890 OBS 1400 0373 34990 2783 14890 STD 1500 0373 3500 2784 0004072 1044 14907					STD	100	0	0420		2780	0.0	0413	7	0840										
OBS 1100 0399 35000 2781 14850 STO 1200 0392 3500 2782 0004073 0922 14864 OBS 1200 0392 35000 2782 14864 STD 1300 0382 3500 2782 0004059 0962 14877 OBS 1300 0382 34997 2782 14877 STD 1400 0373 3499 2783 0004082 1003 14890 OBS 1400 0373 34990 2783 14890 STD 1500 0373 3500 2784 0004072 1044 14907											0.0	134116	8	0681										
STO 1200 0392 3500 2782 0004073 0922 14864 OBS 1200 0392 35000 2782 14864 STD 1300 0382 3500 2782 0004059 0962 14877 OBS 1300 0382 34997 2782 14877 STD 1400 0373 3499 2783 0004082 1003 14890 OBS 1400 0373 3500 2784 0004072 1044 14907											00		-	2-01										
STD 1300 0382 3500 2782 0004059 0962 14877 0BS 1300 0382 34997 2782 14877 STD 1400 0373 3499 2783 0004082 1003 14890 0BS 1400 0373 34990 2783 14890 STD 1500 0373 3500 2784 0004072 1044 14907					STO			0392	3500	2782	00	0407	3	0922	1	4864								
OBS 1300 0382 34997 2782 14877 STD 1400 0373 3499 2783 0004082 1003 14890 OBS 1400 0373 34990 2783 14890 STD 1500 0373 3500 2784 0004072 1044 14907											0.0	10405	0	0947										
STD 1400 0373 3499 2783 0004082 1003 14890 OBS 1400 0373 34990 2783 14890 STD 1500 0373 3500 2784 0004072 1044 14907												J-05	,	5.02										
STD 1500 0373 3500 2784 00U4U7Z 1U44 149U7					STD	140	0	0373		2783	0.0	0408	2	1003	1	4890								
											0.0	11407	,	1044										
											00	0407	-	1046										

ERENC	— SHIP	LATITU	DE I	ONGITUDE NOCIE	MARSDEN SQUARE	STATION TIA	AE Y	EAR CO	ORIG1	NATOR		DEPTH	DEFT		WAVE ERVATIONS	WE.	R CDDES			NDDC STATION	
E NO	CDDE	•	1/10	1/10 0 =	10" 1"	MD DAY HE	.1/10		NO.	NUMI	BER	BOTTO	S'MPL	'S DIR	HGT PER SE		DE TYPE AM	T		NUMBER	
180	07 EV	3920	N	05020 W	114 90	11 12 1	75 1	966	10	3		544	0 15	13	8 4	X	1 0 3			0117	
					WAT		IND	BARO-	AIR TE			ND. OBS.	SPI	ECIAL							
					COLDR	TRANS. DIR.	SPEED OR FORCE	(mbs)	DRY BULB	W E	ET COOL	OBS. DEPTH		ZHOITAV							
					DT		530	310	211		72 8	35									
		J							1												Τ,
	MESSENG	T NO.	CARD	DEPTH (m)	T ℃	s */	SIGMA	(-T SP	ECIFIC VOL	107	∑ ∆ D DYN, M x 10 ³	. \ \ \chi_2(LOCITY	O 2 ml/1	PO4-P pg = 01/1	TOTAL-		NO3-N ug - al/l	\$1 D4-5		o c
	HR 1/10	-		-	 			_		-		+-			+		-		-	+	$^{+}$
	-	1 1	ST	0000	2218	3624	251	2 (00284	89	0000	1	5293		}		ı	ı	I	1	11
	17	5	OBS	0000	2218	36235	251						5293								
			STO		2218	3624	251		00285	28	0029		5295								
			08S	0010	2218	36235 3624	251 251		00285	66	0057		5295 5296								
	00	2	085	0020	2218	36235	251		00200	00	00)1		5296								
			OBS	0025	2217	36235	251						5297								
			STI		2217	3624	251		00285	78	0086		5298								
			08s ST0	0030	2217 2218	36235 3626	251 251		00285	38	0143		5298 5302								
			085	0050	2218	36255	251						5302								
			OBS	0062	2217	36260	251	5				1	5303								
			085	0066 0070	2133	36055	252						5280								
			08S		2194 2170	36605 3655	254 255	0 (00252	20	0210		5303 5297								
			OBS	0075	2170	36550	255		0022		0-10		5297								
			STO		1987	3657	260		00204	23	0467		5253								
			OBS	0100	1987	36570	260						5253								
			STO OBS	0125	1889 1889	3661 36610	263 263		00177	89	0315		5230 5230								
			ST		1826	3654	264		00168	94	0358		5215								
			OBS	0150	1826	36535	264						5215								
			085 STI	0170	1770 1778	36440 3655	264 265		00158	e n	0440		5201 5210								
			085	0200	1778	36545	265		00100	2	0740		5210								
			STO	0250	1725	3647	266		00153	22	0518	1	5202								
			STO		1625	3630	267		00144	15	0592		5178								
			0BS ST(0300	1625 1286	36302 3569	267 269		00120	2 0	0725		5178 5078								
			085	0400	1286	35686	269		00120	50	0123		5078								
			STO		0979	3525	272		00098	58	0834		4981								
			OBS	0500	0979	35247	272						4981								
			OBS STI	0588	0623 0664	34835 3498	274 274		00071	2 8	0919		4855 4875								
			085	0600	0664	34976	274		00071	50	0713		4875								
			OBS	0639	0626	34952	275						4866								
			OBS	0650	0699	35205	276						4900								
			ST:	0700	0661 0661	3515 35154	276 276		00059	14	0984		4892 4892								
			ST		0609	3515	276		00053	55	1041		4888								
			085	0800	0609	35153	276	8				1	4888								
			085	0866	0530	35071	277						4866								
			085 ST(0889	0558 0540	35142 3511	277		00048	4.5	1092		4882 4877								
			085	0900	0540	35112	277		00040	45	1092		4877								
			ST		0496	3510	277		00044	75	1138	1	4875								
			085	1000	0496	35099	277		20011		1100		4875								
			ST(OBS	1100	0439 0439	3502 35023	277		00044	02	1183		4867 4867								
			ST		0414	3501	278		00043	14	1226		4873								
			OBS	1200	0414	35005	278						4873								
			STO		0390	3499	278		00042	33	1269		4880								
			OBS ST	1300	0390 0383	34987 3499	278 278		00042	3.2	1311		4880 4894								
			OBS	1400	0383	34987	278				1-11		4894								
			ST		0377	3499	278		00042	41	1354		4908								
			085	1500	0377	34987	278	2				1	4908								

EFERENCE).	SHIP	LATITUO	DE LON	POUT TANK	MARSOEN SOUARE	TAT2	IT HO	١	rear C	ORIG CRUISE NO.	STATE	ON	1	EPTH OEPTH TO OF S'MPL"	OES	WAVE ERVATIONS	- 1	WEA- THER COOE	CLOUD CODES	T	\$1	IOOC ATION UMBER	
3180	07	EV	3850		020 W	114 80	-	-		966	1	04		5	465 15		3 2		X 2	0 3			0118	
•		,		'		WA	ER	W	IHO	BARO-		EMP.	VIS		NO. SPE	CIAL								
						COLOR	TRANS.	OIR	OR FORCE	METER (mbs)	DRY	BL	ET COO	. L	OBSER	ZNOITAV								
						DT	SD	10	528	315	211	1	78 7	T	29									
		MESSENGR TIME HR 1/10	CAST NO.	CARO TYPE	OEPTH (m)	τ ℃		٠/٠.	SIGM	1	SPECIFIC VO	LUME -X10 ⁷	≨ ∆ 0 0YN. A X 10 ³	у.	SOUNG	O2 ml/l	PO4-P µg = 01/I		TA L-P	NO ₂ -N µg = al/l	HO3-N yg - at/l	\$1 04-\$i µg - a1/l	рН	C C
	ı																							
			, ,	STO	0000	2232	36		251		00280	158	000	0	15298 15298									
		20	8	OBS STD	0000	2232	36	347 35	251 251		00260	97	002	8	15300									
				OBS	0010	2232		347	251		002-0		001	_	15300									
				STD	0020	2232	36		251		0028	36	005	6	15301									
		00.	2	OBS	0020	2232		347	251						15301 15302									
				OBS STD	0025	2232 2232	36	347	251 251		0028	175	008	4	15302									
				oBs	0030	2232	36	347	251	7					15303									
				STD	0050	2232	36		251		00282	253	014	1	15306									
				OBS STD	0050 0075	2232 2232	36	347	251 251		00282	956	021	1	15306 15311									
				OBS	0075	2232		360	251		0020		0-1	•	15311									
				STD	0100	2161	36		256		00238	365	027	7	15301									
				OBS	0100	2161		718	256			1.00	0.10	^	15301									
				STD	0125 0125	2031	36	59 687	259		0020	(89	033	2	15270 15270									
				OBS STD	0150	1945	36		261		0019	047	038	2	15250									
				OBS	0150	1945		640	261						15250									
				STD	0200	1839	36		264		0017	115	047	3	15228									
				OBS	0200	1839		572	264		0016		066	7	15228 15228									
				STD	0250 0300	1812 1785	36 36		264		0016		055		15228									
				085	0300	1785		548	269		0010	240	000		15228									
				STD	0400	1735	36	47	265	58	0016	051	080	1	15229									
				OBS	0400	1735		471	265		0016	c , ¬	0000		15229									
				STD	0500 0500	1651 1651	36	32 316	266		0015	947	095	9	15219 15219									
				STD	0600	1376	35		268		0013	392	110) 4	15143									
				088	0600	1376		825	268						15143									
				STD	0700	1088	35		27:		0011	056	1 4 2	6	15056									
				OBS	0700	1088		407	27		0009	0.0.1	132	7	15056 14980									
				STD OBS	0800 0800	0847 0847	35 35	135	27:		0009	001	102	. 1	14980									
				OBS	0810	0813		109	27						14969									
				OBS	0816	0827		127	27						14975									
				OBS STD	0837 0900	0723 0641		047	27		0006	987	140	7	14938									
				085	0900	0641		012	27		0000	701	140	, ,	14916									
				OBS	0940	0556		961	27						14888									
				OBS	0975	0568		029	27						14899									
				STD	1000	0538	35	006	27		0005	722	147	71	14891									
				OBS STD	1000 1100	0538 0451		96	27		0005	020	152	25	14871									
				OBS	1100	0451	34	960	27	72					14871									
				STD	1200	0463		01	27		0004	899	157	74	14894									
				OBS	1200	0463	-	012	27 27		0004	808	162	23	14894									
				STD OBS	1300 1300	0445 0445		01			0004	000	102		14903									
				STD	1400	0421		99	27		0004	676	167	70	14910)								
				OBS	1400	0421		994				() (1 2 3	. 7	14910									
				STD	1500	0412		00		79	0004	029	171	1.7	14923 14923									
				OBS	1500	0412	34	997	21	79					17763									

FERENCE	SHIP	LATITUO	DE LO	NGITUOE	NOCTR	MARS	DEN	STATI	ION TIA	AE YS	AR	CRUISE	RIGINA	TOR'S		OEPTH	OEFT		WAV ERVA	E	WEA-	CLOUD			NOOC TATION	
NO.	COOE	•	1/10	1/10	ž.	10"	10	MO D	AY HR	,1/10		NO.		UMBER		BOTTO	M S'MPL	S DIR	HGT F	ER SEA	CODE	TYPE AM	7	1	UMBER	
18007	Ev	3820	N 05	020 W		114					966		109			549	0 15	13	5	2	X 2	03			0119	
							WAT		W	O AI	BARO		IR TEM		vis.	NO. OBS.	SPI	CIAL								
						- 1	COLOR	TRANS. Imi	OIR.	SPEED OR FORCE	(mbs)	81	DRY ULB	WET BULB	CODE	DEPTH	S OBSER'	ZATIONS								
							DT	50	10	532	295	5 2	11	178	3 7 1	32										
	MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m	n.)	т	°C	2	-/	SIGMA	_т	SPECIFIC	VOLUM	AE C	E △ 0 YN, M, x 10 ³	SC VE	DUND	02 ml/l			TOTAL-P	NO ₂ -N μg - ot/i	NO3-N pg - p1/1	St O4-S yg - 01/		S
	HR 1/10				_			-			\rightarrow			+					+-	+				-		+
	l	1 1	STO	0000)	2	240	36:	33	251	4	002	8383	3 (0000	1	5300		1	- 1		'	ı	1	'	
	0.0	4	OBS	0000			240		332	251		000	0.0		2.2.0.0		5300									
			STD OBS	0010			240 240	36:	332	251- 251-		002	842	2 (0028		5302 5302									
			STO	0020			240	36:		251		002	846	1 (0057		5303									
			OBS	0020			240		332	251	4						5303									
			OBS	0025			242		332	251			0.5.5				5305									
			STO OBS	0030			242 242	36:	33 332	251 251		002	8554	4 (0085		5305 5305									
			STD	0050			244	36		251		002	868	6 (0143		5309									
			OBS	0050			244		332	251		- 0 -					5309									
			STO	0075			244	363		251		002	878	4 (0214		5313									
			085	0079			244		332	251							5313									
			STD OBS	0100			241 241	36:	332 332	251 251		002	8799	9 (0286		5317 5317									
			STD	0125			185	366		255		002	5330) (0354		5310									
			085	0125			185		617	255							5310									
			STD	0150			009	366		260		002	047	2 (0411		5268									
			OBS	0150			009		666	260		001	750	_	25.04		5268									
			STD OBS	0200			860 860	36	59 588	263 263		001	750	8 (0506		5234 5234									
			STD	0250			829	36		264		001	6990	0 (0593		5233									
			STD	0300)		800	36	57	264	9	001	655	4 (0676		5233									
			085	0300			800		568	264				_			5233									
			STD OBS	0400			747 747	36	49 494	265 265		001	616	8 (0840		5233 5233									
			SID	0500			700	36		266		001	5916	6	1000		5235									
			085	0500			700		422	266				_			5235									
			STD	0600			548	36		267		001	505	1	1155		5201									
			085	0600			548		106	267		001	2/5	_			5201									
			STD	0700			342 342	35	76 757	269 269		001	345	1	1498		5147 5147									
			0BS \$10	0800			074	35:		271		001	118	0	1421		5067									
			085	0800			074		386	271		1		-			5067									
			STD	0900)		839	35		273		000	919	3	1523		4994									
			085	0900			839		127	273		0.00		0	1 (0 7		4994									
			STD OBS	1000			578 578	34	93 925	275 275		000	686	d	1603		4906 4906									
			085	1000			470		925 832	276							4875									
			STD	1100			493	34		276		000	596	8	1667		4888									
			OBS	1100			493		906	276							4888									
			OBS	1160			454		899	276							4882									
			OBS STD	1177			470 452	34	947	276 276		000	539	2	1724		4891 4888									
			OBS	1200			452		925	276		000	,,,,,,	_	1129		4888									
			OBS	121			440		900	276							4884									
			085	124			470		983	277							4903									
			OBS	125			434		906	277		0.00		2	, 770		4889									
			ST0 085	1300			413 413	35	00 996	277 277		000	446.	2	1773		4889 4889									
			085	132			411		994	277							4893									
			085	1389			467P	35	016	277							0,0									
			STD	1400				35																		
			085	1400			449P		996 990	277																
			085	149	U	U	436P	34	440	277	OP															

								.1	ABI	LE I	v .—	- C0	HLL.	nu	ea										
REFERENCE	SHIP				L E	MARS	DEN	I NOITATZ	IME		01	RIGINA	TOR'S		DEPTH	MAX, DEPTH	005	WAVE		WEA-	CLOUD			NOOC]
CODE NO.	CODE	LATITU	1/10	LONGITUDE	0 =	5QU	ARE	MO DAY		YEAR	CRUISE NO.	ST.	ATION		TO BOTTOM	OF	1	HGT PER S		CODE	TYPE AM	Ť		NUMBER	
31800	EV	3750	$\overline{}$	0.5.0.0.	W	114	-		039	1966		106			5486	14	12	5 3		Х6	0 3			0120	
	' '		- '		4	' i	WA	TER	MIND	BARC	A	R TEM	P. °C	1/15	NO.	SPF	CIAL		,						
							COLOR	TRANS. DIR.	SPEED	METE	R OF	RY I R	WET BULB	VIS. COOE	OBS.	OBSERV	ZHONS								
							DT	SD 12	S 45			06	183	6	26										
	MESSENGR TIME	OF NO.	CARI		-(m)	r	*c	s %.	1	1-AM	SPECIFIC ANOMA	VOLUM	€ S	△	SOI	DOLLA	O2 ml/1	PO4=P yg = at/l		TA L-P	NO2-N µg = at/l	NO3-N ид - el/l	\$1 O4~ ug = 01		S
	HR 1/10	-	-			+-			+				- - ^	10	+	_	_		-					+	\dashv
	1	1	51				215	3633		20	002	7744	0	000		293		1	ı	'		1		'	
	03	9	OBS		00		215	36327		20	002	776/	0.	028		293									
			085		10		214	3633 36327		20	002	1100	, 01	020		295									
			51		20		214	3633		20	002	7795	0	056		297									
	00	2	QBS	00	20		214	36327		20						297									
			OBS				208	36327		22		7.5.0		0.00		296									
			S1 083		30 30		202	3633 36325		524	002	1525	0	083		295									
			083		40		128	36253		39						277									
			51		50		121	3631		45	002	5584	0	136		277									
			OB 5		50		121	36307		545						277									
			S1		75		117	3635		49	002	5249	9 0	200		281									
			0B3		75		117	36352 3639		549 556	00.2	4726	. 0	262		281									
			OB:		00		105	36394		556	002	7120	, ,	- 02		282									
			OB:	5 01	8 0		096	36416	25	60					1.5	281									
			S.		25		949	3655		09	001	9728	3 0	318		246									
			QBS		25 31		949	36547 36565		509						246									
			OB:		50		848	3655		529 535	001	7331	7 0	364		222									
			08		50		848	36547		35	001	, , ,	, ,			222									
			S.		00		794	3657		50	001	6080) 0	448		215									
			OB:		50		794 782	36566 3656		550 553	001	6010		528		215									
			S.		00		765	3654		555		5937		608		222									
			QB:		00		765	36538		555						222									
			S.	TD 04	00		717	3646		661	001	5738	3 0	766		224									
			083		00		717	36456		561	001	F / / :		000		224									
			0B:		00		668	3638 36382		667 667	001	5461	. 0	922		225									
					00		523	3609		578	001	4600	1	073		193									
			ОВ:	5 06	00		523	36092		578						193									
			S		00		354	3579		591	001	346	5 1	413		151									
			OB:		00		354	35790 3549		591 709	001	1726	. 1	339		151									
			OB:		100		143	35488		709	001	1120	, 1	233		093									
					00		902	3517		727	000	994	2 1	447		018									
			08	5 09	0.0		1902	35168		727						018									
					000		701	3504		747	000	784	2 1	536		956									
			0B:		00		701 1597	35037 3503		747 760	000	6499	9 1	608		956									
			QB:	5 11	.00		597	35030		760					14	932									
			S	TD 12	00		1480	3496		768	000	5544	+ 1	668		900									
			OB:		000		1480	34955		768	000	5034	. 1	721		+900 +896									
			0B:		300)431)431	3495 34950		773 773	000	2034	+ 1	121		896									
			08:		370)444	35014		777						914									

																	, ,				,
CTRY ID.	SHIP	LATITU	DE L	ONGITUDE STORE	MARSDEN SOU ARE	STATION TO	WE	YEAR	CRUISE S	TATION	\dashv	DEPTH TO	DEPTH		WAVE ERVATIONS	WEA- THER	CLOUD			NODE	
CODE NO.	CODE	•	1/10	1/10 E	10" 1"	MO DAY H	8,1/10		NO. N	UMBER		BOTTOM	OF S'MPL'	S DIR	HGT PER SE	0.007	TYPE AMT			NUMBER	_
318007	EV	3719	N O	5020 W	114 70	11 13 0	77	1966	10	7		5446	15	12	8 2	X2	03			0121	L
					WAT		SPEED	BAR	O+ AIR TE		vis.	NO. 085,	SPE	CIAL							
					COLOR	TRANS. DIR.	OR FORC	METI f (mbi		W ET	COD	DEPTHS	OBSERV	ZNOITAV							
					DT	SD 11	540		4 206	172	8	26									
	MESSENGR	C457	CARD				Т		SPECIFIC VOLU		ΔD	1,			90 8			110 11	51.0		
	MESSENGR TIME G	NO.	TYPE	DEPTH (m)	7 %	s 1/4.	SIG	MA-T	ANOMALY-XI	;; o	YN. M X 10 ³	. AEFO		02 ml/1	PO4-P pg - 01/I	TOTAL-P	NO2-N μg - σt/1	NO3-N pg - al/I	\$1 O4-		ć
	17.10																		-	_	\dashv
	1	1	STD	0000	2049	3633	2.5	67	002334	2 0	000	15	250		1 1	,		'		'	1.
	077	7	OBS	0000	2049	36333		67					250								
			STO		2049	3633		67	002338	0 0	023		252								
			OBS STD	0010	2049 2049	36333 3633		67	002341	7 0	047		252 253								
	002)	085	0020	2049	36333		67	002341	, ,	041		253								
			OBS	0025	2049	36333		67					254								
			STO		2050	3633		66	002348	0 0	070		255								
			08S ST0	0030	2050 2050	36333 3633		66	002257	2 ^	1		255								
			085	0050	2050	36332		66	002356	2 0	117		259 259								
			SID		2051	3633		66	002370	9 0	176		263								
			OBS	0075	2051	36328		66				15	263								
			OBS	0090	2051	36330		66		_			265								
			STO OBS	0100	1970 1970	3657 36567		05	002001	/ 0	231		248 248								
			510		1892	3659		27	001802	9 0	279		231								
			OBS	0125	1892	36587		27					231								
			STO		1840	3657		39	001696	3 0	322		220								
			08S ST0	0150	1840 1789	36572 3655		39	001609	0 0	405		220								
			085	0200	1789	36547		50	001009	8 0	403		213								
			510		1770	3653		53	001594	3 0	485		216								
			STD		1749	3650	26	56	001582	0 0	564	15	217								
			OBS	0300	1749	36502		56			_		217								
			ST0 OBS	0400	1701 1701	3643 36426		62	001558	1 0	721		219								
			STD		1610	3625		70	001511	9 0	875										
			OBS	0500	1610	36246		70		, ,			205								
			STD		1485	3603		82	001419	7 1	022										
			0BS 5TD	0600 0700	1485 1404	36033 3595		93	001334	7 1	160		180								
			085	0700	1404	35948		93	001336	, 1	159		170 170								
			ST0	0800	1296	3575		00	001283	4 1	290										
			OBS	0800	1296	35750		00					148								
			STD		1040	3534		17	001108	5 1	410										
			08s ST0	0900 1000	1040 0826	35344 3514		17	000909	/. 1	511		071								
			085	1000	0826	35136		36	000909	+ 1	711	150									
			085	1030	0720	35029		43					969								
			STO		0633	3504		56	000697	9 1	>91										
			OBS STD	1100 1200	06 3 3 0489	35036 3492		56 64	000594	, 1	65,		946								
			085	1200	0489	3492		64	000594	→ I	656	149									
			STD	1300	0459	3494		70	000544	9 1	713										
			OBS	1300	0459	34944		70					908								
			STD OBS	1400 1400	0453	3500		75	000509	B 1	766										
			510	1500	0453 0447	34995 3502		75	000495	6 1	816	149									
			085	1500	0447	35017		77	000475	- 1	-10	149									

TABLE V. Observed and interpolated oceanographic data taken by USCGC ROCKAWAY on North Atlantic Standard Monitoring Section 6, 19-22 November 1966; prepared from NODC listing No. 31-1061.

REFERENCE	SHIP				± 5	MARSOE	1	STATION TO	ME			ORIGIN			OEPTH	MAX.	089	WAVE	WEA-	CLOUG			NOOC	
CODE NO.	COOE	LATITU	1/10	LONGITUDE '1/10	INDCI			H YAO OA	9 1/10	YEAR	CRU	O. S	TATION		TO BOTTOM	O.F	00.	HGT PER SEA	CODE	TYPE AMI	-		NUMBER	
311061	RC	3201	-	06521 W	+ -	15 2	_			1966	+				4206	41	10	3 4	X1	8 2			0001	
1211001	1 40 1	5201	и Г	30321 W	1 1.	1	WATE		INO			AIR TE		Н	NO.	41	1 10	12 14 1	1 71	012	I	1	0001	1
									SPEED	- BAR MET		ORY	WET	VIS.		ORSERV	CIAL							
						CC	OE	IRANS. OIR.	FORCE	(mb	s)	BULB	BULB		OBS. OEPTHS	0000								
								12	505	20	7	222	183	7	19									
	MESSENGR	CAST	CARD			- 4-			Ι		SPEC	IFIC VOLU	ME ₹	Δ×.	sou	מאט		PO4-P	TOTAL-P	NO ₂ -N	NO3-N	SI O4-S	i	5
	TIME -	Y NO.	TYPE	OEPTH	(m)	T *C		5 %.	SIG	MA-T	AN	OMALY-K	07 D	N. M	. VELO	OCITY	O2 ml/1	pg = 01/1	µg • α1/1	µg - ol/l	µg = at/l	μg - ot/		c
	HK 1/10								+		1				+	\neg								\forall
	I	1 1	ST	000	o '	234	0 '	3658	25	04	00	2932	2 0	000	15	328		1 1	'	'			1	1.
	179	7	085	000		234		36583	25							328								
			ST	001	0	233	9	3663	25	07	0.0	2899	8 0	29	15	330								
	179	9	085	001		233		36635	25							330								
			ST			233		3664	25			02897		058		331								
	130		ST			233		3664		80	00	2898	5 0	087		333								
	179	1	OBS ST			233	-	36639 3663	25	08 09	0.0	2899	1 0	145		333 335								
	179	,	085			233		36624	25		00	22077	1 0	-47		335								
	4/3		ST			205		3663		88	0.0	2160	4 0	208		267								
	179	7	085			200		36631		02						254								
			ST	D 010	0	191	9	3659	26	20	0.0	01858	2 0	259	15	234								
	179	7	085	010		189	6	36584	26	26					15	229								
			ST			186		3657		32		1756		304		224								
			ST			183		3655		38	00	01709	8 0	347		219								
	179	₹	085			182		36549	26		0.0		2 2			218								
	1.03		ST OBS	020 020		181		3654 36540	26	44	00	01668	3 0	432		220								
	187	1	ST			178		3652		48	0.0	01646	6 0	514		221								
			ST			176		3648		51		01638		597		222								
	187	7	085			176		36471	26				_			222								
			ST		0	172	1	3640	26	55	0.0	01623	6 0	760	15	224								
	187	7	085			170		36381	26	57						223								
			ST			162		3621		65		01562		919		208								
			ST			150		3600		75	00	01484	9 1	071		186								
	187	ſ	OBS ST			146		35942 3580		79 82	0.0	01439	6 1	218		178 167								
			ST			125		3560		96		01313		355		133								
	187	7	085	T084		118		35514		04	00	,,,,,	- 1	- , ,		112								
			ST			099		3537		27	00	01010	4 1	471		055								
			ST			073	3	3516		52		00743		559		970								
	187	7	085			061		35072		61						931								
			ST			059	-	3507		64		00617		627		931								
			ST			055		3507		68		00576		687		933								
			ST			052		3506		72		00547		743		935								
			ST ST			049		3505 3504		75 77		00523 00502		797 848		939 945								
	187	7	085			044		35036		79	00	30302	2 1	U 4 O		951								
		'	ST			041	_	3501		80	0.0	00483	4 1	971		967								
			ST	D 200	0	038	1	3498	27	81	0.0	00476	9 2	091	14	994								
	195	5	085			037		34979		82						000								
			ST			033		3497		85	00	00449	5 2	323		057								
	195	5	085	T 257		032		34964		86						067								
	100		ST 085			028		3493		87	00	00437	5 2	544		122								
	199		085			027		34927 34896	27	88						131 199								
	19:	,	12			022		3489		89	0.0	00422	5 2	974		271								
	195	5	085	T407		022		34888		89		00762		- , 4		284								
			- 00			, , ,	_	2.500	- '															

ID.	SHIP	LATITU	DE 1/10	LON	GITUOE	MAR SOU	ARE	STATION (GA	AT1	YEAR	CRUIS		ATOR"	N .	OEPTH TO BOTTOM	MAX. DEPTH OF S'MPL	OB:	WAVE SERVATION		WEA- THER CODE	CLOUD CODES		S1	NODC TATION UMBER	
	D.C.	2150		066		115	_	11 20			5 A6	2 00	2	,	4663	15		3 4		ХO	0			0002	
.061	RC	3158	N	000	19 W	1115	WAT		WIN	p		AIR TEA		_		1 15	1 10	۴) دا	1	1 40	1 10	1	1	00021	
							COLOR		- 1 9	PEED ME		ORY	WEI	VIS.	NO.		ECIAL VATIONS								
							COOE	lm)	IIR. F	ORCE (m		BULB	BUL		DEPTHS	OUZER	, , , , , , , ,								
								0	0 5	00 21	08	214	17	4 7	14										
	MESSENGR					1					Larca	FIC VOLU		≥ △ 0	1 .0	UND		PO ₄	0 7	DTA L-P	NO2-N	NO3-N	SI O4-SI		s
	TIME	CAST NO.	CAR		OEPTH (m	1 1	°C	s */.		SIGMA-T		MALY-XI	07	∑N. M. x 10 ³		OCITY	O3 ml/	μg - 0		10 - 01/1	μg - at/l	μg - σI/I	yg = ol/l	pН	200
	HR 1/10	-		-				-	-		+			× 10	+				+						$^{+}$
			٠,	- 1	0000		270	2666	- 1	2612	1	2067	ا ء	0000	1.5	311		1	1	١	1			ı	11
	003		085 085		0000		278	3646 3646		2513 2513	00	2847	2	0000		311									
	003	,	51		0010		279	3649		2514	0.0	2834	0	0028		313									
	003	3	089		0012		279	3649		2515	00	2034	0	0020		314									
	00.		5		0020		278	3652		2517	0.0	2814	9	0057		315									
			2.		0030		277	3655		2519		2794		0085		317									
	0.03	3	083		0034		277	3655		2520			-			317									
			51		0050		277	3657		2521	0.0	2787	1	0141	15	320									
	003	3	083		0056		277	3657	76	2521					15	321									
				TD	0075	2	188	3664		2552	0.0	2505	1	0207	15	303									
	003	3	083	S	0084	2	139	3665	1	2566						291									
			S.	T D	0100	2	027	3664	+	2596	0.0	2093	3	0264		264									
	003	3	083		0111		966	3662		2611						249									
			S.		0125		931	3661		2619		1882		0314		242									
		_		тО	0150		.880	3659		2630	0.0	1780	3	0360		231									
	003	3	OB:		T0166		855	3657		2636		1705	_	0617		227									
				TD	0200		830	3655		2640	00	1705	1	0447		225									
	003	3	083		0219		819	3654		2642	00	1684	7	0532		225									
				TD TD	0250		1811 1794	3654 3652		2644 2647		1675		0616		231									
	003	2	0B:		0325		784	3650		2648	00	11017	'	0010		232									
	00.	,		TD	0400		750	3645		2652	0.0	1655	7	0782		233									
	00:	3	08:		T0432		730	3641		2655			,			232									
				TD	0500		691	3632		2657	0.0	1644	2	0947		231									
				TD	0600		586	3613		2667		1572	_	1108	15	213									
	00:	3	08:		0644		522	3602		2673					15	199									
			S	TD	0700]	1397	3580)	2683	0.0	1429	0	1258	15	166									
			S	TD	0800	1	180	3546		2700	0.0	1263	8	1393	15	105									
	00:	3	08:	S	T0856	1	1062	3532	21	2711					15	071									
			S	TD	0900	(958	3525		2724	0.0	1030	7	1507		040									
			S	TD	1000	(754	3511		2745	0.0	0812	8	1600		978									
	00:	3	08:		1063		0649	3504		2755						946									
				TD	1100		1632	3504		2757		0690		1675		946									
			_	TD	1200)584	3501		2762		0642		1741		943									
				TD	1300		0537	3502		2767		0595		1603		941									
			_	TD	1400		1490	350		2772		0547		1860		938									
	0.0	0		TD	1500)443	3500		2776	0.0	0500	1	1913		935									
	00:	3	08	5	T1525	(0431	3500	10	2777					14	935									

																	MAX									7
ICE	SHIP	LATITU	OE 30	LON	GITUDE SOUTH	sa	RSDEN U ARE	STA	TION TI		YEAR	CRUIT		TATIO	IN	TO	OEPTI	OBS	WAVE ERVATION	- 1	WEA-	COOES			NOOC	
10.			1/10	07.	1/10 5	10*			DAY HE		0//	NO		UMB	+	BOTTON	" S'MPL		HGT PER	SEA	COOE	TYPE AM	1		NUMBER	-
161	RC	3158	N	06	739 W	115	5 17 WAT		_	55 1	966 T		2 00			4846	47		3 4	- 1	X 1	8 2	1	-	0003	1
							COLOR	TRANS	+	SPEED	MET	ER	DRY	W E	T CODE	NO. OBS.	OBSED!	ECIAL VATIONS								
							CODE	lm1		FORCE	(mb	_	BULB	BUL	-	DEFINS										
Г									23	504	18	2	211	17	1	Ļ—	Щ,			_						
	MESSENGR TIME HR 1/10	CAST NO.	CAR		OEPTH (m)		r *c	s	٠/,,	SIGM	A-T	SPECI	MALY-XI	и E 1 ⁷	₹ △ 0 DYN, M. x 10 ³	VET.	OCITY	O 2 ml/l	PO ₄ -P yg - a1/1		TAL-P g = st/l	NO2-N ug - o1/I	NO ₃ -N µg = ot/l	51 O4-5 µg = at/		
			_ ِ ا	τρ	0000	١.,	2276	36	4.2	251	^	1	2867	,	0000	1,5	310				ı					
	055	;	08:		0000		2276		428	251		00	2001		0000		310									
	0,2,2	,		TD	0010		2277	36		251		00	2873	7	0029		312									
	055	5	OB:		0010		2277		430	251																
				TD	0020		2274	36	43	251	.1	00	2870	2	0057	15	313									
				TD	0030		2273	36		251		00	2871	+	0086		314									
	055	5	08:		0030		2273		427	251			20-		0.3		314									
	0.5			TO	0050		2274	36	-	251		00	2879	8	0144		318									
	055		OB:		0051		2274		430	251		0.0	2265		0.700		318									
	055		OB:	TO	0075 0077		2098 2087	36	683	257 258		00	2245)	0208		279									
	0 9 5	,		5 TD	0100		2005	36		260		00	2008		0261		259									
	055	5	0B:		0103		1995		674	260		00	2000	•	0-01		256									
				TD	0125		1925	36		262		00	1853	1	0309		240									
				TO	0150		1867	36		263			1748		0354		228									
	055	5	0B:	S	T0153		1862	36	582	263	4					15	227									
				TΟ	0200		1825	36		264		00	1686	+	0440		224									
	055	5	OB:		0204		1823		558	264							224									
				TD.	0250		1828 1833	36		264			1698		0525		233									
	055		OB:	T D	0301		1833	36	597	264		00	1713	>	0610		243									
	055		0B:		T0399		1748		448	265							243									
	0,5	,		TD .	0400		1748	36		265		00	1653	1	0778		233									
				τĐ	0500		1690	36		265			1664.		0944		230									
				TD	0600		1581	36	13	266			1560		1105		211									
	055	5	08	5	0605		1574	36	124	266	9						210									
				TΩ	0700		1409	35		268			1447		1256		170									
	0.5.5			I D	0800		1206	35		269		00	1277	9	1392		115									
	055		08:		T0816 0900		1171 0965	35	469	270		0.0	10/.24	,	1500		105									
	055	,	OB:	10	0900		0917		25 211	272		00	1042	7	1508		042									
	ررن			10	1000		0783	35		274		0.0	0851	5	1603		989									
	055	5	ΟВ:		11030		0737		095	274		30			05		976									
				TO	1100		0684	35		275		00	0734	3	1682		967									
			S	τD	1200		0615	35	80	276	2	00	06530)	1751		956									
				TD	1300		0556	35		276			0587		1814		949									
	0.0			10	1400		0505	35		277		00	0534	1	1670		945									
	064	+	08:		1440 1500		0488		052	277		0.0	0516	2	1022		945									
				TD TD	1750		0474 0423	35 35		277			0516.		1922 2047		949									
	064	+	0B:		T1930		0393		000	278		00	0704	,	2041		987									
	_			TD.	2000		0385	34		278		0.0	0475	2	2167		996									
	064	+	0B		2428		0340										, , ,									
				D	2500		0333	34		278	4	00	0461)	2401	15	059									
	064		08		T2926		0294		940	278	16					15	115									
				10	3000		0287	34		278		00	0439	4	2626		125									
	064		083		3430		0254		928	278							186									
	064	۲	0B:		3934		0233		905	278							265									
	0.0		\$		4000		0231	34		278		00	0425	+	3059		275									
	064	.	OB:	5	T4695	(0224	34	933	279	2					15	396									

IO.	SHIP	LATITU	DE L	ONGITUOE HOON	MARSOEN SOUARE	STATION THE	YEAR	CRUISE STA	TION	OEPTH DEPTH TO OF S'MPL	OB5	WAVE ERVATIONS	WEA- THER COOE	CLOUD	ī	5.1	NOOC ATION UMBER	
061	RC	3200		6846 W	115 28		16 1966	A62 004	4	975 15		2 2	X1	8 2			0004	
	1	2200			WA		INO T	A ID TEAM				- -	1 ^1	1 012	1	1 '	00041	
					COLOR	TRANS OIR	SPEED MART	J-	WEI CODE	OBS. ORECE	ECIAL VATIONS							
					COOE	(m)	OR Imbs	BULR	RULR	OEPTHS OBSER								
						26	508 17	9 211	169 7	14	1							
	MESSENGR	CALL	CARO			1		SPECIFIC VOLUM	E & A D	SOUND		PO ₄ -P	TOTAL-P	NO2-N	NO3-N	SI O4-Si		s
	MESSENGR TIME (T NO.	TYPE	OEPTH (m)	1 10	s '4.	SIG MA-T	ANDMALY-X107	X 103	VELOCITY	O2 ml/l	µg = at/)	μg = α1/1	yg - 01/1	1\forall = gu	yg = a1/l	рН	C
	PIK 1710					1			-			 						H
	I	1	STD	0000	2323	3643	2497	0029923	0000	15322		1				, ,		1 1
	117		OBS	0000	2323	36434	2497		0.00	15322								
			STD	0010	2322	3644	2498	0029877	0030	15323								
	117		085	0010	2322	36442	2498			15323								
			STO	0020	2322	3644	2498	0029911	0060	15325								
			STD	0030	2321	3644	2498	0029946	0090	15326								
	117		OBS	0031	2321	36440	2498			15326								
			STD	0050	2322	3644	2498	0030048	0150	15330								
	117		OBS	0053	2322	36438	2498	0000070	0305	15330								
	117		STD	0075 0078	2320 2320	3644	2499	0030078	0225	15334								
	117		STD	0100	2122	36444 3669	2499 2574	0023035	0291	15334 15290								
	117	,	085	0105	2086	36722	2586	0023035	0291	15290								
	111		STD	0125	2002	3667	2605	0020173	0345	15262								
			STD	0150	1920	3661	2622	0018642	0394	15243								
	117		OBS	T0157	1902	36601	2626	0010012	02,74	15239								
			STD	0200	1841	3656	2638	0017250	0484	15228								
	117	,	OBS	0207	1834	36553	2639			15227								
			ST0	0250	1821	3655	2642	0017029	0569	15230								
			ST0	0300	1802	3654	2647	0016782	0654	15233								
	117	•	OBS	0308	1799	36542	2647			15234								
			STD	0400	1758	3646	2651	0016674	0821	15236								
	117	,	085	T0408	1753	36450	2652			15236								
			STO	0500	1706	3634	2655	0016648	0988	15235								
			STD	0600	1596	3615	2666	0015809	1150	15216								
	117		OBS	0612	1578	36120	2668	0011000	1200	15212								
			STD STO	0700 0800	1385 1175	3580 3550	2685	0014038		15162								
	117	,	085	T0816	1142	35454	2704 2707	0012251	1431	15104								
	11/		STO	0900	0958	3528	2726	0010089	1542	15094 15040								
			STD	1000	0774	3512	2743	0008371	1635	14986								
	117	,	085	1022	0739	35089	2745	0000011	1000	14975								
			STD	1100	0693	3508	2751	0007584	1714	14970								
			STD	1200	0634	3506	2758	0006957		14964								
			STD	1300	0576	3505	2764	0006335	1854	14957								
			STD	1400	0517	3503	2770	0005729	1914	14949								
			STD	1500	0458	3502	2776	0005125	1968	14942								
	117	'	085	T1531	0440	35010	2777			14939								

REFERENCE	SHIP	LATITUO	, L	NGITUGE	E E N	AARSOEN SQUARE	STATION	TIME	YEAR			ATOR'S		DEPT			WAVE SERVATIONS	WEA-	CLOUD			NOOC	
CODE NO.	CODE		1/10	1/10	프릭	0. 1.	MO I DAY			CRUI		STATION NUMBE		вотто	OF S'MPL		HGT PER SE	2000	TYPE AM		, N	UMBER	
311061	RC		_	7000 W		16 10	11 20	168		A6	2 00	5		512	1 47	34	6 3	X2	6 8			0005	
' '	' '		'	'	'	WA	TER	WINC	BAR			MP. ℃	Т.	NO.	1		'		/ -	'	'		
						COLOR	TRANS. OL	R. 1 (R MET	ER	ORY BULB	WET	COD		- 09550	EÇIAL VATIONS							
						CODE	0		0 18	_	206	172	7	21									
							1	2 32	0 10	<u>'</u> 'L.	200	1		Щ.			<u> </u>				1		
	MESSENGR TIME	CAST NO.	CARD	DEPTH 0	m)	τ *c	5 %	. ,	IGMA-T	SPECI	FIC VOL	JME S	E A D	. 3	OUND	02 ml/	PO4-P	TOTA L-P	NO ₂ -N	№03~И	5104-51	рН	S
	HR 1/10		ITTE					_					x 10 ³	·	ELOCITY		yg + e1/l	yg - et/l	μg - at/l	yg - 01/1	µg - a1/1		c
										1													
	1.40		STD	0000		2366	3654		492	00	3038	8 (0000		5333								
	168 168		OBS OBS	0000		2366 2367	3653 3653		492						5333								
	100	,	STD	0010		2367	3654		492	0.0	3042	8 (030		5335								
			STD	0020		2367	3654		493		3045		061		5337								
			STD	0030		2366	3654	2	493		3047		091		5338								
	168	1	085	0030		2366	3654		493						5338								
			STD	0050		2367	3654		492	00	3058	19 (152		5342								
	168	l .	085	0051		2367	3653		492	0.0	201		220		5342								
	168		STD	0075		2363	3653 3653		493	00	3062	8 (1229		5345 5345								
	100)	STD	0100		2140	3668	_	568	0.0	2358	2 (297		5295								
	168	1	085	0103		2117	3669		575	00	2336	12	- 71		5289								
	100		STD	0125		2015	3666		601	0.0	2057	5 0	352		5265								
			STD	0150		1929	3663		621		1872		401		5246								
	168	l	OBS	T0154		1918	3662		623						5243								
			STD	0200		1856	3657		635	00	1754	1 0	492		5233								
	168	3	OBS	0206		1849	3655		636		1710				5231								
			STD	0250		1821 1786	3653 3649		641 646		1715		1578 1663		5230 5228								
	168	ι	085	0309		1780	3648		648	00	1010	13 (000		5228								
	168		OBS	T0399		1712	3637		656						5221								
			STD	0400)	1711	3638		656	00	1617	6 (828		5221								
			STD	0500		1603	3615	2	664	00	1568	4 (987	1	5202								
			STD	0600		1462	3592		678	00	1454	8 1	138		5171								
	168	3	OBS	0619		1432	3587		681) = 4		5164								
			STD	0700		1268	3563 3538		696		1287		276		5121 5066								
	168		085	T0826		1023	3532		718	00	1120	ו כו	770		5052								
	100		STD	0900		0883	3518		731	0.0	0953	4 1	500		5011								
	168	ı	085	0928		0833	3513		735	• •			- 00		4996								
			STD	1000		0707	3507		748	00	0769	2 1	>86		4959								
	168	l .	085	T1029		0663	3505		753						4946								
			SID	1100		0620	3504		758		0675		658		4941								
			STD	1200		0565	3503		764		0617		723		4935								
			STD	1300		0518 0477	3502 3501		2769 2773		0570 0531		.782 .837		4933 4933								
	177	,	085	T1476		0451	3500		2776	00	0 2 3 1	. 0 .	051		4935								
			STD	1500		0448	3501		776	0.0	0503	6 1	889		4938								
			STD	1750		0415	3501		780		0482		012		4966								
			STD	2000		0386	3501		783		0463		130		4996								
	177	,	280	T2020		0384	3500	8 2	783					1	4999								
			STD	2500		0337	3497		785	00	0459	7 2	361	. 1	5060								
	177		085	2532		0334	3500		7870	0.0	045				F 1 2 0								
	177		STD	3000 T3066		0295	3494 3493		786 786	00	0451	2 6	589		5128 5138								
	177		085	3602		0250	3492		789						5214								
	2.7.1		STD	4000		0237	3490		788	0.0	0440	3 2	035		5278								
	177	,	OBS	4140		0234	3489		788						5301								
	177	,	085	T4681		0230	3490		789						5396								

																_							
FERENCE	SHIP	1 4 7)	0.	ONCITUOS	DRIFT	MARSOEN	1	STATION TI	ME	AR	ORIGIN			OEPTH TO	DEFII		WAVE SERVATIONS	WEA-	CLOUD		.!	NODE	
Y ID.	CODE	LATITU	1/10	LONGITUDE '1/10	NON	10° 1	· A	O DAY H		AK C		STATIO NUMB		BOTTON	0.5	1	HGT PER SE	COOK	TYPE AM	1		UMBER	
11061	L RC	3215		7030 W			_			66	A62 00	6	9	303	16	01	6 4	X1	8 2			0006	
			'		٠ .		WATE	R W	IND	BARO-	A IR TE	MP. °C		NO.		CIAL		·					
							LOR 1	RANS DIR	SPEED	METER	DRY	W.E.	VIS.	OBS. DEPTHS	0.05501	ZNOITAV							
							OE		FORCE	(mbs)	_	-											
				-1				03	516	195	200	15		13									_
	MESSENGE	CAST NO.	CARD	OEPTH	(m)	T 10		5 %.	SIGMA	-T	SPECIFIC VOLU	IME	₹ A O	SO	OCITY	02 ml/	PO4-P	TOTAL-P	NO2-N	NO3-N	SI O4-Si	рH	
	HR 1/10		TYPE				_		ļ		ATTOMACT - K		X 10 ³	VEL	.00111		ا/10 - وبر	yg • et/l	μg - ο1/I	/to - gu	ug - 01/1		1
					_	1			1	- 1				١									1
			ST			236		3657	2495		003016	5	0000		334								
	21	4	085	000		236 236		36567 3657	2495		003015	0	0030		334								
	21	4	ST0	001		236		36570	2495		003013	0	0030		335								
	21	7	ST			236		3657	2495		003022	1	0060		337								
			ST			236		3657	2495		003028		0091		339								
	21	4	OBS	003	1	236	7	36566	2494	4				15	339								
			ST			236		3657	2495		003038	3	0151		342								
	21	4	085	005		236		36565	2495						342								
	2.4		STO			236		3657	2495		003042	2	0227		346								
	21	4	OBS	007		236		36578	2496		002194		0293		347								
	21		STI OBS	010		207		3666 36672	2585		002194	0	0293		277								
	21	4	STI			195		3662	2613		001937	5	0344		249								
			STE			189		3658	2626		001824		0391		235								
	21	4	OBS	T015		188		36570	2629		00102.	-	0- , 1		232								
			ST			184		3655	2638		001729	3	0480		228								
	21	4	OBS	021	1	183	2	36550	2640)				15	227								
			ST			181		3654	2642	2	001701	5	0566	15	230								
			STO			179		3651	2646		001682	9	0651		230								
	21	4	OBS	031		178		36496	2647			_			230								
			STO			173 164		3637 3619	2651		001671		0818		227								
			ST			151		3599	2659 2672		001620		1140		214								
	21	4	085	063		146		35911	2677		001010		1140		177								
		_	STO			134		3572	2688		001372	5	1284		147								
			ST			115		3547	2706		001208		1413		096								
	21	4	OBS	T085	1	105	9	35358	2715						070								
			ST			095		3527	2726		001003		1524	15	037								
			ST			076	-	3512	2745		000816	5	1615		981								
	21	4	OBS	105		066		35054	2752						+953								
			STO			065	-	3505	2755		000712	-	1691		953								
			STI			060 056		3505 3504	2760		000664		1760 1824		+952 +951								
			ST			051		3503	2770		000570		1884		950								
			ST			047		3503	2779		000523		1938		+948								
	21	4	OBS	T157		044		35024	2778		00022	,	2.50		947								
															, ,								

EFERE	NCE					× ^	MARSOEN	ITATZ	ON TH			ORIGIN	ATOR'S		OEPTH	MAX		WAVE		WEA-	CLO	10		NOOC
RY DE	IO.	CODE	LATITU	OE 1/10	LONGITUOE		SOUARE 10° 1°	MO O	MT)	YEA	AR C		TATIO		TO	0.5	1 00	SERVATIO		THER COOE	TYPE			NOITATE
11	061	RC	3229		7055 W					06 19	66	462 00		-	139	15	01	6 4	31.7	x 1	8			0007
, , ,	001	1 110	7227	., ,	,,,,,	1-	WAT			INIO		AIR TE				i		10 17 1	- 1	Λ1	101	۲ ا	- 1	0007
							COLOR	TRANS.	OIR.	SPEED	BARO- METER	ORY	WET	VIS.	NO. 085.	S92	CIAL /ATIONS							
							CODE	(m)	OIR.	DR FDRCE	[mbs]	BULB	BULI		DEPTHS									
									03	521	210	195	150	7 0	14									
		MESSENGI	CAST	CARD		Т		Π.			,	PECIFIC VOLU	ME	≨ ∆ o oyn. м.	501	ONU		PO4-1		TAL-P	NO2-	N NO3-	N S104-	
		TIME HR 1/10	O NO.	TYPE	OEPTH (m)		T °C	\$	٠/٠٠	SIGMA-	-T 1	ANDMALY-XI	07	ΟΥΝ. Μ. χ 10 ³		OCITY	02 ml/	yg • ml		- 01/1	μg - ol			
		HK 1710	+			+		+		-	-		_		-	-		+	+			+		
		Ì	1	ST	0000	-	2369	365	0	2489	١,	003074	6 1	0000	1 15	334		į	1	'		ì	- 1	1
		006	á	OBS	0000		2369	364		2489		003014		3000		334								
				STI			2369	365		2489		003077	2 1	0031		335								
		000	5	OBS	0010		2369	365		2489						335								
				ST	0020		2369	365		2489	1	003079	1 1	0062		337								
		006	ó	OBS	0029		2368	365	01	2489						338								
				ST			2368	365	0	2489	(003082	4 1	0092	15	338								
		000	ó	OBS	0048		2368	364	90	2488					15	341								
				ST			2368	364		2488	(003097	7 (0154		342								
		000	5	OBS	0072		2368	364		2489						345								
				ST			2338	365		2501		002987	6	0230		339								
		000	5	OBS	0095		2163	367		2568			_			301								
				STI			2134	367		2575		002291		0296		294								
		0.0	,	STI			2012	366		2603	(002035	5 1	0350		265								
		000	5	OBS ST	T0143		1945 1930	366 366		2618		001076		1399		249								
		000	c	085	0191		1857	365		2621 2635	,	001874	0 1	1299		246 231								
		001	2	ST			1851	365	_	2636		001749	2 1	0490		231								
				STI			1821	365		2642		001708		0576		230								
		000	5	085	0287		1802	365		2645		001100		0 - 10		231								
				ST			1799	365		2645	(001692	7 (0661		232								
		000	5	085	то383		1768	364		2650	,		,			236								
				ST			1762	364		2651	(001669	7 (0829		237								
				STI			1697	363		2657		001643		995		233								
		006	5	OBS	0578		1611	361	89	2665						218								
				ST			1577	361		2668	(001559	8	1155	15	210								
				STI			1405	358	-	2684	(001424	2	1304	15	169								
		006	5	OBS	T0775		1260	356		2697					15	130								
				ST			1193	355		2704		001230		1437		110								
				STI	_		0954	352		2725	(001016	4	1550		038								
		006	ó	OBS	0972		0809	351		2736						994								
				STI			0788	351		2739		000876		1644		991								
				ST			0715	350	_	2748		000790		1728		979								
				ST			0641	350		2757		000706		1805		960								
				STI			0567	350		2765		000624		1669		953								
		0.0		STI			0493	350		2772	(000545	3 .	1927		940								
		006		085	T1468		0443	350	09	2777					14	930								

	ENCE	SHIP	LATITUDE	101	PRIFT TOUTIES	MARS	ARE	TATE	ON TE	ME YEA	, L	ORIGIA			DEPTH	DEFIR		WAVE ERVATIONS	WI		CLOUD		N	ODC	
RY IDE	10. NO.	CODE	1/10	LOP	1/10	10°		MO LE			· CK		TATIO		BOTTO	1 00	003	HGT PER S	1 65		CODES		ST NI	ATION	
3 1	061	RC	3250 N	0.7	130 W	116	-		-	40 196	_	62 00			5120	_		6 4	X	_	8 2		_		
1		1	3230 11	٠,	-30 11	110	WAT			IND		AIR TE				1 77	1 01	0 14 1	^	+ I	0 2		1 0	8000	
								TRANS.		SPEED AA	ARO- ETER	DRY	WE	VIC	NO. 085.	OBETON	VATIONS								
							CODE	fm)	DIR.	FORCE (mbsl	BULB	BUL	B	DEPTHS	OBSER	V A IIDIN S								
									03	S14 Z	25	181	12	6 7	21										
	1	MESSENGE		_		Т.					1			5 A D	T			T	1	Τ.,					T.
		MESSENGR TIME O	CAST CAR		DEPTH (m)	T	°C	S	٠/	SIG MA - T	Al	CIFIC VOLU	07 D	₹ △ D DYN, M x 10 ³		OCITY	0 2 m1/1	PO4-P µg = 01/1	TOTAL		D2-N g - at/l	NO3-N pg - at/l	\$1 O4-\$i yg - a1/1	pН	č
		HR 1/10				-								X 10°	-			77	/* -	-		pg - 4171	pg - 01711		H
	}		l l	rn l	0000	١,	310	363	B	2497		02997	,	0000	1,5	318				-			- 1		
		040	089		0000		310	363		2497	0	02));	7	0000		318									
		0.0		r D	0010		309	363		2497	0	03003	7	0030		319									
		040			0010		309	363		2497		0-003		0000		319									
			Si		0020		310	363		2497	0	03005	7	0060		321									
		040	OBS	5	0028	2.	310	363	179	2497						323									
			\$1		0030		310	363		2497	0	03008	1	0090		323									
		040			0047		311	363		2496					15	326									
			\$1		0050		312	363		2496	0	03021	2	0150		327									
		040			0070		316	363		2496						331									
		040	Si		0075 0093		331	364		2494	0	03054	5	0426		336									
		040	085 51		0100		336 265	365		2499 2522	0	02795	6	0.400		341									
			51		0125		061	366		2585		02795		0299 0362		325									
		040			T0140		977	366		2609	0	02204	_	0762		257									
			S1		0150		957	366		2614	0	01941	9	0414		253									
		040	OBS	5	0184		898	365		2626	_					242									
			51		0200		880	365		2630	0	01798	1	0507		240									
			S1	ďΊ	0250	1	836	365	6	2639	0	01730	4	0596		235									
		040	083	5	0272	1.	822	365	50	2642					15	234									
			51		0300		815	365		2644	0	01704	4	0681		237									
		040			10361		797	365		2647				_		242									
			\$1		0400		780	365		2651		01669		0850		243									
		040	51		0500		737	364	-	2656	0	01650	9	1016		246									
		040	0BS 51		0546 0600		717 649	363 362		2655 2660	0	01636	٥	1180		247									
			\$1		0700		478	359		2676		01501		1337		193									
		040	OBS		T0736		403	358		2683	0	01201	_	1731		174									
			SI		0800		246	356		2698	0	01291	5	1477		129									
		040	089		0833		164	354	-	2705	v	1	-	- ' '		105									
			Sì	rD	0900		992	352		2720	0	01076	0	1595		052									
		040	085	5	T0931	0.9	920	351	82	2725						030									
			\$1		1000		841	351		2735		00923		1695		011									
			51		1100		737	351		2748		00795		1781		988									
			\$1		1200		645	350		2758		00697		1656		968									
			S1 S1		1300 1400		567	350		2765		00617		1922		953									
			S1		1500		502 449	350 350		2771 2775		00559		1981		943									
		049	085		T1527		437	349		2776	Ü	00510	Ö	2034		938 937									
		3 + 7	S1		1750		411	349		2779	0	00489	7	2159		964									
			51		2000		385	349		2781		00476		2280		996									
		049	OBS		T2019		383				v		-			,,,									
			\$1		2500		340	349	9	2786	0	00452	6	2512	15	062									
		049	085	5	2510		339																		
			ST		3000		298	349		2790	0	00425	2	2731	15	130									
		049	085		T3004		298	349		2790					15	131									
		0 49	089		3495		259	349		2789						199									
		049	OBS		3988		241	349		2789						278									
		0	S1		4000		241	349		2790	0	00432	9	3160		280									
		049	OBS)	T4925	0.	233	349	94	2796					15	442									

REFERENCE	SHIP	LATITUO		NGITUDE HE	MARS	OEN	STATI	ON TI		(EAR	_	ORIGIN			DEPTH	OEPTI		WAVE	15	WEA-	CLOUG		1.5	100C	
ODE HO.	CODE	·	1/10	* 1/10	10°		MOTO			1604	CRUI:		TATION NU MBER		TO BOTTON	A S'MPL		THIGHT PER		THER	TYPE AMI			UMBER	
311061	1 RC	3310			116	-	<u> </u>			966		+		-	5 0 2 0				31.4			1			
J1400.	1 46	2210	14 0 /	200 W	110	WAT			INO	900	A 6				5028	15	01	5 4	- 1	ΧO	1 10	1	i	00091	
						COLOR	TRANS.		SPEED	BARO		AIR TE/	WET	vis.	NO. OBS.		ECIAL								
						COOE	Im1	OIR	FORCE	(mbs)		BULB	BULB	CODE	OEPTHS	OBSER	SHOITAV								
								36	514	229	7	172	116	7	14										
	MESSENGR	1 [T			\vdash		1						-			T					T		
	TIME	CAST	TYPE	OEPTH (m)	T	°C	2	٠/٠٠	SIGMA	A-T		FIC VOLU	ME 6	YN. M.	. SO	OCITY	O2 ml/l	PO4-8		- 01/I	NO2-N µg - 01/1	NO ₃ -N yg - o1/1	\$1 O4-\$1 yg = qt/1	pН	c
	NR 1/10	-							-	-			-	X 10 ³				7,	1 20		79 0	pg - 01/1	py - air i		4
	1								1	_				_				1		- [1		+1
	0.00		STD	0000		321	363		248		00	3076	2 0	000		320									
	088	3	OBS	0000		321	363		248			2005				320									
	088		STO	0010		322	363		248		00	3085	1 0	U31		322									
	008	,	OBS STD	0010		322 322	363 363		248		00	3086	0 0	062		322									
			510	0020		322	363		248			3090		062		323									
	088	,	085	0030		322	363		248		00	20 70	1 0	093		325									
	000	,	STD	0050		320	363		248		00	3093	5 0	154		328									
	088	1	085	0051		320	363		248		00	2075	, ,			328									
			STD	0075		310	363		249		00	3075	4 0	231		329									
	088	3	085	0077	2	309	363	17	249							330									
			STD	0100	2	300	364	2	250	3	00	2978	3 0	307		332									
	088	3	085	0101	2.	298	364	25	250	4					15	332									
			STD	0125	2	118	365	6	256	5	00	2396	3 0	374	15	292									
			STD	0150		982	366		260		00	2004	8 0	429		260									
	088	3	085	0153		969	366		261							257									
			STD	0200		874	365		263		00	1790	7 0	524		238									
	088	3	085	0204		868	365		263							237									
			STD	0250		838	365		263			1735		612		235									
			STD	0300		815	365		264		00	1704	4 0	698		237									
	088	3	085	0305		813	365		264					_		237									
	0.00	,	510	0400		796	365		264		00	1707	5 0	869		248									
	088	,	OBS STO	T0407 0500		794 778	365 364		264		00	172/		0/1		248									
			STD	0600		707	363		264			1734		041 212		258 252									
	088	1	OBS	0612		595	363		265		00	1072	J 1	212		250									
	000	,	STD	0700		574	360		266		00	1605	2 1	377		225									
			STD	0800		399	358		268			1453		530		183									
	088	3	OBS	T0817		365	357		268		•		_ 1			174									
			STD	0900	1	141	354		270		00	1212	8 1	664		108									
			STD	1000	0	912	351	8	272	6	00	1021		775		038									
	088	3	085	1019	0	374	351	37	272	9						027									
			STD	1100	0	305	351		273	8	00	0907	4 1	872	15	014									
			STD	1200		719	350		274	8	00	0806	2 1	957	14	997									
			STD	1300		534	350		275		00	0708	7 2	033	14	980									
			STD	1400		548	350		276		00	0614	8 2	099	14	962									
			STD	1500		+63	350		277		00	0524	5 2	156	14	944									
	088	3	OBS	T1502	0.	461	350	06	277	5					14	943									

REFERENCE	PINZ				2.5	MARS	OEN	STATIO	N TIA	ME			ORIGIN				PEPTH	MAX. GEPTH		WAV SERVA	E	WEA-	CLOUG			200	
CTRY IO.	COOE	LATITU		ONGITUDE	DRIFT				MT)		YEAR	CRUIS NO.		OITATIO			MOTT	OF	0.			THER	CODES			UMBER	
			1/10	1/10	1 1	10*		MO DA				1	_		n .	+	-	S'MPL"		+	PER SE	`	11172 1200	1			
311061	RC	3331	NIO	7234 W	1	116		11 21			1966					49	901	16	01	5	4	X1	8 8 5	1		0010	
						-	WAT		w	IND	BAR	U~	AIR TEA		- VIS	5	NO.	SPE	CIAL								
							COLOR	TRANS. [OIR.	OR FORCE	MET!		DRY BULB	BULE		DE	OBS. EPTHS	OBSERV	ATIONS	ŀ							
						-			2	520	24	_	72	12	-	+,	14			{							
								<u> </u>	,,,	1	124	<u>, L</u>	12			٠,	14			Ц.							
	MESSENGR TIME O	CAST	CARO	OEPTH	(m)	Т	°C	5 ./		SIGA	AA-T	SPECIFI	C VDLU	M E	₹ A C	D.	SOU		O 2 ml/		a-P	TOTAL-P	NO2-N	NO3~N	SI O4-Si	pΝ	Š
	HR 1/10	NO.	TYPE									ANDA	1AL)-11	٠.	x 103	3	VELO	CITY		פע	- 01/1	yg - at/l	νς - αI/I	µg - 01/l	µg = a1/1		c
		, ,	STO	000	0	23	309	3633	3	24	94	003	1025	7	0000	0 ′	153	317		•	•						
	118		085	000			309	3633		24							153										
	118		OBS	000			309	3633		24							153										
			STD				309	3633		24			1031		0030		153										
	110		STD				309	3633		24		003	035	1	006	1	153										
	118		OBS STD	002			309 309	3633 3633		24		003	039	0	009	1	153										
	118		085	004			309	3633		24		00.	0039	U	009.	ī	153										
	110		STO				309	3634		24		0.03	042	4	015	2	153										
	118		085	007			310	3634		24		00.	,0 72		0 - 0 -	_	153										
			STD				97	3644	-	25		002	945	7	022	7	153										
	118		085	009			236	3669		25							153										
			STD	010	0	21	84	3668	3	25		002	475	3	0294	4	153										
			STD	012	5	20	27	3664	+	25	96	002	102	6	0252	2	152	268									
	118		085	7014			954	3662		26							152										
			STD				22	3661		26		003	869	2	040	1	152										
	118		085	019			324	365		26				_			152										
			STD				324	3658		26			669		049(152										
	118		STD	025 029			324 322	3658 3658		26		00.	687	0 (0574	4	152 152										
	110		STO				322	3658		26		001	699	۷ .	0658	0	152										
	118		085	039			312	3657		26		001	.079	0	000	0	152										
			STO				310	3657		26		0.01	712	а (0829	9	152										
			STD				780	3650		26			724		100		152										
			STD				750	3643		26			735		1174		152										
	118		OBS	060			749	3642		26				_			152										
			STD			15	93	3611		26		001	633	8	1342	2	152										
			STD			14	03	3580)	26	82	001	469	6	1497	7	151	84									
	118		OBS	T081			366	3574		26							151										
			STD				39	3547		27			201		1631		151										
	110		STD				04	3521		27:		000	986	3	174(0	150										
	118		085	103			325	3512		27:		000	0.77	1	100	,	150										
			STD				783	3511		27			877		1834		150										
							715	3509		27			798		1917		149										
			STD STD				547 579	3507 3509		27			722		1993		149										
			STO				511	3503		27			16481 1574:		2062 212:		149										
	118		085	T159			446	3501		27		000	14	0	212:)	149										
	110		003	1139	_	0 2	• - 0	2201	. 2	21	1.1						149	122									

			-								_		MAX				1				
CTRY ID.	SHIP	LATITU	DE L	DAGITADE POCITION	MARSDEH SQUARE	STATION	TIME	YEAR	ORIGINA CRUISE S1	ATION		DEPTH	DEPTH		WAVE ERVATIONS	WEA-	CLOUD		S	ODC	
CODE NO.	CDDE	•	1/10	· 1/10 0 ½	10" 1"	MD DAY	HR,1/10			UMBER	1	MOTTOM	S*MPL	S DIR	HGT PER SE	CODE	TYPE AM	1	N	UMBER	
311061	RC	3347	N O	7300 W	116 33	11 21	147	1966	A62 011		4	+572	43	04	5 3	×1	8 3			0011	
					WA		WIND	BAR			VIS	HO.	SPE	CIAL							
					COLDR	TRANS. OI	SPEE OR FORG	- MES		W ET BULB	CODE	285, 2HT930	DBSER	ATIONS							
					-	104	_	-			7	20									
						1	1														
	MESSENGR TIME	CAST H ND.	CARD	DEPTH (m)	T 1C	s °/	\$10	SMA-T	ANOMALY-X10	TE DYN	∆ D i, M. 10 ³	VELD		02 ml/l	PO4-P yg = at/1	TOTAL-P	HO2-H ug - ol/l	NO3-H pg - at/1	\$1 O4-\$i yg - at/1	рН	Š
	HR 1/10	-		.		-				X	105	-			100			pg - di//			4
			STD	0000	2296	3635	1 24	499	0029783	1 00	00	15:	314								11
	147	,	OBS	0000	2296	3635		499	002710.	, ,,	00		314								
			STD		2296	3635		499	0029822	2 00	30	153									
	147	,	OBS	0011	2296	3634		499					316								
			ST0		2296 2295	3635 3635		499 499	0029858		60	153									
	147	,	OBS	0030	2295	36348		+99 499	0029091	00	90	151	319								
	2 . ,		STD		2295	3635		499	0029952	01	49	153									
	147	,	OBS	0055	2295	3635	5 24	499				153									
			STD		2294	3638		501	0029822	2 02	24	153									
	147	,	OBS	0082	2293	3638		502	00.723.00			153									
	147	,	STD OBS	0100	2096 2021	3657 3663		572 597	0023220	02	90	152									
	141		STD		1979	3663		508	0019866	03	44	152									
			STD		1924	3663		522	001863			152									
	147	,	OBS	T0163	1900	3662		528				152	239								
			STD	0200	1854	3658		536	0017420	0 4	82	152									
	147		085 STD	0218 0250	1836 1826	36560 3656		539 542	0017063	0.5	69	152	230								
			STD		1809	3655		545	0016900			152									
	147	7	OBS	0328	1800	3653		547				152									
			STD	0400	1780	3650	26	549	0016909	08	23	152	243								
	147	7	OBS	T0442	1759	3645		551				152									
			STD		1723 1625	3638 3620		653	0016758			152									
	147	,	OBS	0660	1545	3606		563 571	0016107	11	55	152	209								
			STO		1463	3592		578	0014830	13	10	151									
			STD	0800	1264	3560		595	0013274			151									
	147	7	OBS	T0893	1083	3537	_	711					085								
	147	,	STD OBS	0900 0999	1070	3536		713	0011519	15	74	150									
	147		510		0883 0881	3519 3519		731 732	0009617	7 10	80	15(15(
			STD		0691	3506		750	0007679		67	140									
	147	7	OBS	T1112	0671	3504		752				149									
			STD		0617	3505		759	0006801		39	149									
			STO		0562	3505		766	0006129			149									
			STD		0515 0474	3505 3505		772 776	0005577		16	149									
	155	,	OBS	T1575	0448	3504		779	0003111	. 20	10	140									
			STD	1750	0424	3503		781	0004786	21	39	149									
			STD	2000	0393	3501		782	0004721	. 22	58	149									
	155)	OBS	T2122	0379	35008	_	784	000//			150									
	155		STD OBS	2500 2674	0345	3501 3500:		787 788	0004462	24	88	150									
	100		STD	3000	0303	3498	_	789	0004352	27	08	150									
	155)	OBS	3221	0286	34966		789	000.552		50	15									
	155		OBS	3766	0245	3491		789				152									
	1.6		STD	4000	0235	3490		788	0004370	31	44	152									
	155)	OBS	T4324	0230	34898	3 2	789				153	332								

ID.	COOE	LATITU		DNGITUDE .	MARSO	RE	STATION TIA	YEAR		TION	OEPTH DEPTH TO OF OTTOM S'MPL	085	WAVE ERVATIONS	WEA- THER CODE	CLOUD CODES		ST	ATION UMBER	
	DC	2406	1/10	1/10	10"	_	MO DAY HR					1	5 3	x1	1	-		2012	
1061	RC	3406	N 0.	7330 W	110			99 1966	A62 012			1 05	15 15 1	I XI	8 6	1	1 4	0012	
					-	WAT		SPEED MET	0-	WET CODE		ECIAL							
						COOE	TRANS. DIR.	OR (mbs		ULB CODE	DEPTHS	ZNOITAV							
					-	-	05	516 24	6 182 1	134 7	14								
		1								T < ^ 0			T						7.
	MESSENGR	CAST NO.	CARD	DEPTH (m)	T	°C	s ·/	SIGMA-T	SPECIFIC VOLUME ANOMALT-X107	₹ ∆ O DYN. M.	VELOCITY	02 ml/l	PO4-P µg = 01/1	10TAL-P pg - ot/l	NO2-N :	NO ₃ -N	SLO4-Si pg = at/l	рН	ć
	HR 1/10									x 10 ³									H
								2612			15001				l				11
			STD	0000		160	3639	2512	0028493	0000	15306								
	199		085	0000		60	36392	2512	0030464	00.30	15306								
	100		STD	0010		255 255	3638 36384	2513 2513	0028454	0028	15306 15306								
	199	'	OBS STD	0020		253	3639	2514	0028417	0057	15307								
	199	,	OBS	0029		52	36389	2514	0020411	0001	15308								
	1 7 7	·	STD	0030		252	3639	2514	0028417	0085	15309								
	199)	085	0048		254	36389	2514			15312								
			STD	0050	22	254	3639	2514	0028542	0142	15312								
	199)	OBS	0073	2.2	252	36390	2514			15316								
			STD	0075	2.2	232	3642	2522	0027823	0213	15311								
	199)	085	0096	20	58	36640	2587			15272								
			STD	0100)44	3664	2591	0021369	0274	15269								
			STD	0125		966	3662	2610	0019625	0325	15252								
	199)	085	T0148		912	36601	2623	00104.0	0.470	15240								
	100		STD	0150		909	3660	2624	0018443	0373	15240 15231								
	199	7	OBS	0193		355 355	36579 3658	2636	0017423	0463	15232								
			STD	0200 0250		350	3661	2636 2639	0017423	0550	15232								
	199	1	085	0288		339	36627	2644	0011290	0,00	15243								
	175		SID	0300		333	3661	2644	0017045	0635	15243								
	199)	085	T0386		786	36518	2649	002,0.5	0-33	15242								
			STD	0400		778	3650	2649	0016844	0805	15242								
			STD	0500	17	722	3639	2655	0016655	0972	15241								
	199	9	085	0582	16	576	36300	2659			15239								
			STD	0600	16	545	3624	2661	0016276	1137	15232								
			STO	0700	14	462	3592	2678	0014808	1292	15188								
	199	7	085	T0779	13	305	35684	2693			15147								
			STD	0800		250	3562	2699	0012850	1431	15131								
			STD	0900		013	3533	2721	0010699	1548	15061								
	199	7	085	0987		839	35138	2734			15008								
			STD	1000		329	3513	2735	0009156	1648	15007								
			STD			752	3510	2745	0008313	1735	14993								
			STD			574 597	3507 3504	2753 2761	0007487	1814 1885	14979 14965								
			STD STD	1400		519	3504	2768	0005924	1948	14950								
			STD			442	3498	2774	0005924	2004	14935								
	199)	085	T1509		435	34973	2775	0000101	2004	14933								
	473	,	000	11509	V.	, , ,	34713	2117											

REFE	RENCE	SHIP					- E	MARS	DEN	STATION	TIM				ORIGIN	OTAP	1*5		QEPTH	MA			VE	WEA		OUD			NOOC]
CODE	10. NO.	COOE	LATITU	0E 1/10	LON	1/10 °	DRIFT	sou.		(GMT			YEAR	CRUI!		STATE	NC		TO BOTTOM	0.0			ATIONS	THE		Saoc			TATION	
	1061	RC	3423		0.7/	400 W		116		MO DAY	22		966	A6	_		<i>JL</i> ((+	3658			_	PER SE			AMT		_		1
1 21	1001	ا برد ا	7423	14	0 / -	+00 W	1 1	110	WAT		WIN		T		2 01			4		16	06	5	3	X1	8	17	I	-	0013	1
								1	COLOR		T-	SPEED	METE		DRY	W	_	VIS.	NO. OBS.		ECIAL VATIONS									
									COOE	tm1	- 1	ORCE	(mbs		BULB	BU			DEPTHS	OBJEK	** IIO/43									
										10) S	13	24	7	178	13	34	7	13											
		MESSENGE	CAST	CAI	80				4-	/	T			SPECI	FIC VOL	IME	₹ /	70	501	סמע			PO4-P	TOTAL-	NO ₂	ıN	NO3-N	\$104-5		\$
		TIME HR 1/10	약 NO.	TY		DEPTH	m)	'	€	5 %.		SIGM	A – T	ANO	MALT-X	107	OYN	. M. 10 ³		DCITY	O2 ml/		g = 01/1	/ום - פע			μg - at/l	μg - οl/		C
		111 1710			$\overline{}$		_	_			\dashv					-			+-			+			\vdash	_			+	\dashv
		I	1	S	TD 1	0000	0	2	252	3641	- 1	251	6	00	2813	8	00	00	15	304		1	í		1	- 1	'		I	1 1
		228	8	0B.	S	0000	0	2	252	36411	L	251								304										
				S	TD	001	0	2	251	3639		251	5	00	2827	3	00	28	15	305										
		228	8	08	_	001			251	36394	+	251								305										
					TD	002			252	3640		251			2828		00			307										
		221	n	08.	TD	003			252	3640		251		00	2833	15	00	85		309										
		221	В		S TD	005			252 252	36405 3640		251 251		00	2840	6	01	4.2		309 312										
		228	8	08		005			252	36401		251		00	2040		01.	42		312										
					TO.	007			252	3640		251		00	2851	1	02	13		316										
		221	8	0 B		007		2	252	36400)	251								317										
					TD	010	0	2	98	3661		257	4	00	2298	4	02	77	15	283										
		221	8	08		010			168	36643	3	258	5						15	276										
					TD	012			991	3661		260			2032		03			258										
		22	_		TD	015			916	3659		262		00	1868	18	03	80		241										
		221	В	08.	S TD	T015			900	36581 3656	L	262		00	17//	_	04	7.0		238										
		221	А	08.		021			350 340	36557	7	263 263		00	1746	8	04	10		231										
			0		TD	0250			830	3655		264		0.0	1723	. 1	05	57		233										
					TD	0300			312	3653		264			1711		00			236										
		228	8	08.	S	0318	3	1	304	36523	3	264								236										
					TD	0400			782	3647		264			1717		08			243										
					ŢD	0500			710	3635		265			1666		09			237										
		221			TD	0600			88	3616	,	266		00	1555	6	114	45		214										
		228	5	08.	5 TD	0644			319 388	36049 3582		267 268		00	1395	7	129	0.2		198 163										
					TD	0800			165	3547		270			1227		142			100										
		228	8	08.		T0864			30	35305	5	271		00	1441	0	17	د ے		061										
					TD	0900			949	3525		272		00	1015	0	15	36		036										
				S	TO	1000)	0.	750	3511		274	5	00	0806	5	162			976										
		228	8	08		1075			528	35029)	275								940										
					TD	1100			17	3503		275			0679		170			940										
					TD	1200			575	3503		276			0629		17			939										
					TD TD	1300			32 90	3503 3504		276			0579		10			939										
					T0	1500			447	3504		277			0530 0480		19:			938 938										
		228	3	08:		T1594			07	35040	2	278		00	U-0U	,	19.	ر ر		937										
				,	_					3		- 10	_						7.4	271										

ENC 10	SNIP	LA.	TITU DE		ACITUOE SOUTION	MARSOEN SOUARE	TATE	ION THE	١	EAR C	CRUISE	ATOR'S STATION NUMBER		OEPTN TO OTTOM	MAX. OEPTH OF S'MPL"	089	WAVE ERVATION PER		WEA- THER COOE	CLOUG CODES			NOOC TATION TUMBER	
106		34	42 N	1	425 W			_		966	A62 01		13	219	31	07	5 3	365	Х6	8 8	1		001/	1
	, 1 100	1	72 14	• •	450 MI I	WA			IND		A 10 TE			NO.			1212	ı	1 40	1 010	F	ŀ	0014	1
						COLOR	_	OIR.	SPEED	BARO+ METER	ORY	WET	CODE	OBS.		CIAL /ATIONS								
						CODE	(m)		FORCE	(mbs)	BULB	BULB	'	SHITABO										
								08	513	251	178	134	7	15										
	MESSEN	GR CA	AST CA	ARO		v 50		•/	T		SPECIFIC VOLU	ME E	△ o,	sou	סאט	01/	PO4-	P T	OTAL-2	NO ₂ -N	NO3-N	SI 04-5		3
	HR 1/1	U N	0. 1	YPE	DEPTH (m)	1 ℃	,	*/	SIGM	4-1	ANDMALY-X	107	10 ³	VELC	DCITY	O2 ml/l	pg - 0		ug - a1/1	µg - at/1	µg - at/1	μg - ot/	ρН	6
	1,11 1,1	-							<u> </u>															\top
	1	'	' 5	STD	0000	2282	36.	39	250	6	002911	7 0	000	15	311		'	'	'		'	,	,	١,
	01	17	0.6	35	0000	2282		389	250	6				15	311									
				STD	0010	2282	36		250		002913		29		313									
				T D	0020	2281	36		250		002916	3 0	058		314									
	0 1	17	0.6		0022	2281		391	250				_		314									
				OTO	0030	2281	36.		250		002917	1 0	087		316									
	0 1	1.7	OE	_	0044	2280		399	250				1		318									
	0.1	1.7		STD	0050	2280	36		250		002911	1 0	146		319									
	0 1	1 /	9.0	55 5TD	0071 0075	2278 2238	36	439 53	251 252		002719	3 0	216		322 314									
	0 1	17	O.E		0098	2039		675	259		002119	5 0	- 10		268									
	0.	7 1		570	0100	2034	36		259		002104	0 0	276		266									
	0.1	17	0.6		0103	18210		623	264		002104	0 0	- 70	10	200									
		• '		STD	0125	1970	36		260		001979	8 0	327	15:	253									
				STD	0150	1916	36		262		001868		376		241									
				STD	0200	1834	36		264		001708		+65		226									
	0 1	17	0.6	35	T0209	1823	36	554	264	2				15;	224									
			5	STD	0250	1811	36	55	264	5	001677	4 0	550	15	228									
			5	STD	0300	1791	36	53	264	8	001661	3 0	33	15;	230									
	01	17	0.6	35	0320	1782	36	514	264	9				15;	230									
			5	5TD	0400	1741	36	44	265	4	001641	6 0	798	15	231									
	0 :	17	0.6	35	0432	1714		395	265	7				15	227									
				STD	0500	1612	36		266		001556		958		205									
				570	0600	1444	35		268		001427	8 1	107		166									
	0 1	17	OE		T0658	1338		736	269						138									
				STD	0700	1239	35		269		001266		242		110									
				STD	0800	1021	35		271		001106	4 1	361		046									
	0.	17	3.0	55 5 T D	0886 0900	0853 0813	35	097	272		000904	1 1	+61		996 984									
				5 T D	1000	0593	35		276		000616		237		914									
				STD	1100	0495	35		277		000515		594		890									
	0.1	17	OE		T1114	0491	,,,	~ _	211	-	000013	, 1	7.4	2 4	0,70									
		25	0.8		1120	0491	35	016	277	2				14	891									
	0.			STD	1200	0470	35		277		000509	4 1	545		897									
				STD	1300	0449	34		277		000497	_	596		904									
				STD	1400	0430	34		277		000489		745		913									
				STD	1500	0413	34	97	277		000484	0 1	794	14	923									
	02	25	08	35	T1681	0389	34	963	277	9				14	943									
				STO	1750	0386	34		277		000475		913		953									
				STD	2000	0373	34		278		000476	5 2	32		990									
	0;	25		3.5	T2152	0363		966	278						012									
				570	2500	0340	34		278		000478	5 2	271		062									
		25	Of	35	2732	0315	34	949	278	5				150	091									
	02					0	-							4										
		25	5	STD BS	3000 T3081	0276 0262	34	95 945	278 279		000418	5 2	495		121 129									

REFERENCE	T come				- 4	MARS		STATE		1ME		Т	ORIGI	NATOR	rs.	Т	OEPTH		MAX.		WAVE		WEA	. CLOUE	1		NODC	1
CTRY ID.	CODE	LATITU			DRIF	son			SMT)		YEAR	CRU		STATE			OT MOTTOR	, I	OF		SERVAT		THER	e l	1	5	TATION	
1101	D. C.		1/10	1/10		10*	1		_	R,1/10		+	+-		9E N	+		2.1	MPL'S		-	+	`+	TIPE AN			- OHIDEK	-
311061	RC	3444	N C)7505 W		116	45 WAT			072 VINO	1966	1	2 01			4	2377	1	11	07	6 4	1	X6	1818	1		0015	1
								TRANS.		SPEED	BAR		ORY	WI		VIS.	NO. OBS.	١.,	SPEC									
							CODE	(m)	DIR.	FORCE			BULB	80		ODE	DEPTHS	OR	SERV	A TION	'							
									04	520	26	1	166	13	37 7	7	13				1							
	MESSENGR	CAST	CARO	1	-					1		SBEC	IFIC VOL	1144.5	₹ Δ	0	T	UND	\top		- 10	. 1						7,
	TIME	OF NO.	TYPE	DEPTH	im i	T	℃	S	٠/	SIGA	AA-T		X-YJAMC		OYN.	. M.	VELO			O 2 ml	PO4 عاد		101AL-1 ug - ol/l	NO2-N ug - at/l	NO3~N ug = a!/I	\$1 O4~\$i	pН	ć
	HR 1/10	\vdash				-		-		+		_		-			+-				-	-		<u> </u>				+
	l	1 1	STÛ	000	n	١ ,	535	362	2	24	1.8	n c	3751	1	000	20	15	27	. 1			I			l		l	-
	072	,	OBS	000			535	362		24		00	,,,,,	. 1	000	,,,	15											
		_	STO				537	362		24		0.0	3754	0	003	38	15											
	072	2	OBS	001	1	2	537	362	34	24	18						15	37	3									
			ST	002	0	2	537	362	2	24		0.0	3764	• 7	007	75	15	37	4									
			ST				536	362		24		0.0	3767	73	011	13	15	37	5									
	072	2	085	003			536	362		24							15											
			ST				534	362		24		0.0	3774	9	018	38	15		_									
	072	2	085	005			533	362		24		0.0					15	-										
	072	2	STO	007			533 5 33	362 362		24		00	13783	3 1	0 4 8	33	15:											
	072	_	510				483	364	_	24		0.0	3489	0.0	037	7 /.	15:											
	072	,	OBS	011			438	365	-	24		00	240)	, 0	001		15	_										
		-	STE				283	365		25		0.0	2876	4	045	3	15											
			STO	015	0	2	075	365	0	25		0.0	2336	7	051	18	15.	28	4									
	072	2	OBS	T016			982	364		25							15	26	1									
			STO				888	364		26.		0.0	1890	0	062	24	15;											
	072	2	085	022.			839	364		26				_			15											
			STO				796 735	364	-	26			1692		071		15											
	072	,	STC OBS	033			703	364		26	57 67P	00	1579	16	079	15	15	21	3									
	072	-	STO				686	363		26		0.0	1600	7	095		15;	21	2									
	0.72	2	085	045			673	362		26		00	1000	, ,	0,,	, -	15;											
			STO				607	360		26		0.0	1683	30	111	19	15											
			STO	060	0	1	376	356	1	26	73	0.0	1495	1	127	77	15											
	072	2	OBS	068		0	6680	353		27	75Q																	
			STO				013	352		27	16	0.0	1070	7	140)6	15	04	7									
	0.5		STO				520	349		27		0.0	0550)5	148	37	14											
	072		OBS	T081			463	349		27							14	82	8									
	072	_	OBS	114	T ()	0.	435	349	52	27	73																	





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